					DEPARTMEN <sup>T</sup>	T OF NA	OF UTAH ATURAL RESO GAS AND M				AMENI	FO DED REPOR	RM 3	
		AF	PLICATION	FOR F	PERMIT TO DRILL					1. WELL NAME and NO		023-7D1C	s	
2. TYPE O	F WORK	DRILL NEW WELL	REENTE	R P&A	WELL DEEPEN	I WELL	)			3. FIELD OR WILDCA	r Natural	. BUTTES		
4. TYPE O	F WELL				ed Methane Well: NO					5. UNIT or COMMUNI		AGREEM	ENT NAM	1E
6. NAME O	F OPERATOR									7. OPERATOR PHONE				
8. ADDRE	SS OF OPERATO				AS ONSHORE, L.P.					9. OPERATOR E-MAII				
	AL LEASE NUM		P.O. Box 1737		enver, CO, 80217  11. MINERAL OWNERS	SHIP				12. SURFACE OWNER		anadarko	com	
	., INDIAN, OR S	UTÚ38420			FEDERAL INC	DIAN 🛑	) STATE	) FEE(		-	DIAN 🔵	STATE	~	EE 🔵
13. NAME	OF SURFACE	OWNER (if box 12	= 'fee')							14. SURFACE OWNER	R PHONE	(if box 12	= 'fee')	
15. ADDR	ESS OF SURFA	CE OWNER (if box	12 = 'fee')							16. SURFACE OWNE	R E-MAIL	(if box 12	= 'fee')	
	N ALLOTTEE OI = 'INDIAN')	R TRIBE NAME			18. INTEND TO COMM MULTIPLE FORMATIO		PRODUCTION	NFROM		19. SLANT				
(II BOX 12	- INDIAN )				YES (Submit C	Comming	gling Applicati	on) NO 🤅		VERTICAL DIF	RECTION	AL 📵 H	IORIZONT	ΓAL 🔵
20. LOC	TION OF WELL			FOO	OTAGES	QT	TR-QTR	SECT	ION	TOWNSHIP	R/	ANGE	МЕ	ERIDIAN
LOCATIO	N AT SURFACE		5	97 FNL	L 629 FWL	N	WNW	7		10.0 S	23	3.0 E		S
Top of U	ppermost Prod	ucing Zone	5	79 FNL	L 823 FWL	N	WNW	7		10.0 S	23	3.0 E		S
At Total	Depth		5	79 FNL	L 823 FWL	N	WNW	7		10.0 S	23	3.0 E		S
21. COUN	TY	UINTAH			22. DISTANCE TO NEA		<b>EASE LINE (F</b> 79	eet)		23. NUMBER OF ACR	ES IN DRI 63		IT	
					25. DISTANCE TO NEA (Applied For Drilling	or Comp		POOL		26. PROPOSED DEPT		TVD: 844	8	
27. ELEV	TION - GROUN	<b>D LEVEL</b> 5192			28. BOND NUMBER	WYB0	000291			29. SOURCE OF DRIL WATER RIGHTS APPR		MBER IF A	PPLICAB	LE
		0102			Hole, Casing			rmation						
String	Hole Size	Casing Size	Length	Wei	ght Grade & Th	read	Max Mu	d Wt.		Cement		Sacks	Yield	Weight
Surf	11	8.625	0 - 2290	28	3.0 J-55 LT8	&C	0.2	2		Type V Class G		180 270	1.15	15.8 15.8
Prod	7.875	4.5	0 - 8456	11	1.6 I-80 LT	&C	12.	5	Pren	nium Lite High Strer	ngth	280	3.38	12.0
										50/50 Poz		1140	1.31	14.3
					А	ATTACH	HMENTS							
	VER	IFY THE FOLLO	WING ARE A	TTAC	HED IN ACCORDAN	NCE WIT	TH THE UTA	AH OIL AN	D GAS	CONSERVATION G	ENERA	L RULES		
<b>w</b> w	ELL PLAT OR M	AP PREPARED BY	LICENSED SUR	VEYOR	R OR ENGINEER		сом	PLETE DRIL	LING P	_AN				
AF	FIDAVIT OF STA	TUS OF SURFACE	OWNER AGREI	EMENT	(IF FEE SURFACE)		FORM	1 5. IF OPER	RATOR I	S OTHER THAN THE LI	EASE OW	NER		
<b>I</b> DIF	RECTIONAL SUI	RVEY PLAN (IF DIR	ECTIONALLY (	R HO	RIZONTALLY DRILLED	<b>D)</b>	<b>г</b> торо	GRAPHICA	L MAP					
NAME Gi	na Becker			1	TITLE Regulatory Analy	/st II			PHON	E 720 929-6086				
SIGNATU	RE				<b>DATE</b> 10/01/2012				EMAIL	. gina.becker@anadark	o.com			
	BER ASSIGNED 047532460	0000		4	APPROVAL				Bro	oggill				
									Pern	nit Manager				

Bonanza 1023-7D Pad Drilling Program
1 of 7

### Kerr-McGee Oil & Gas Onshore. L.P.

### BONANZA 1023-7D1CS

Surface: 597 FNL / 629 FWL NWNW BHL: 579 FNL / 823 FWL NWNW

Section 7 T10S R23E

Uintah County, Utah Mineral Lease: UTU-38420

### **ONSHORE ORDER NO. 1**

### **DRILLING PROGRAM**

### 1. & 2. <u>Estimated Tops of Important Geologic Markers</u>: Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta Green River Birds Nest Mahogany Wasatch	0 - Surface 1,112' 1,366' 1,840' 4,128'	Water Water Gas
Mesaverde Sego	6,259' 8,448'	Gas Gas
TVD	8,448'	Gas
TD	8,456'	

### 3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program

### 4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

### 5. <u>Drilling Fluids Program:</u>

Please refer to the attached Drilling Program

### 6. <u>Evaluation Program</u>:

Please refer to the attached Drilling Program

Bonanza 1023-7D Pad Drilling Program 2 of 7

### 7. **Abnormal Conditions:**

Maximum anticipated bottom hole pressure calculated at 8448' TVD, approximately equals 5,407 psi 0.64 psi/ft = actual bottomhole gradient

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,536 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

### 8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

### 9. Variances:

Please refer to the attached Drilling Program. Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- · Blowout Prevention Equipment (BOPE) requirements;
- · Mud program requirements; and
- Special drilling operation (surface equipment placement) requirements associated with air drilling.

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

### **Background**

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Bonanza 1023-7D Pad Drilling Program
3 of 7

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12 1/4 inch hole for the first 200 feet, then will drill a 11inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

### Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

### **Variance for Mud Material Requirements**

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

### Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and

Bonanza 1023-7D Pad Drilling Program
4 of 7

on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

### Variance for FIT Requirements

KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

### Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

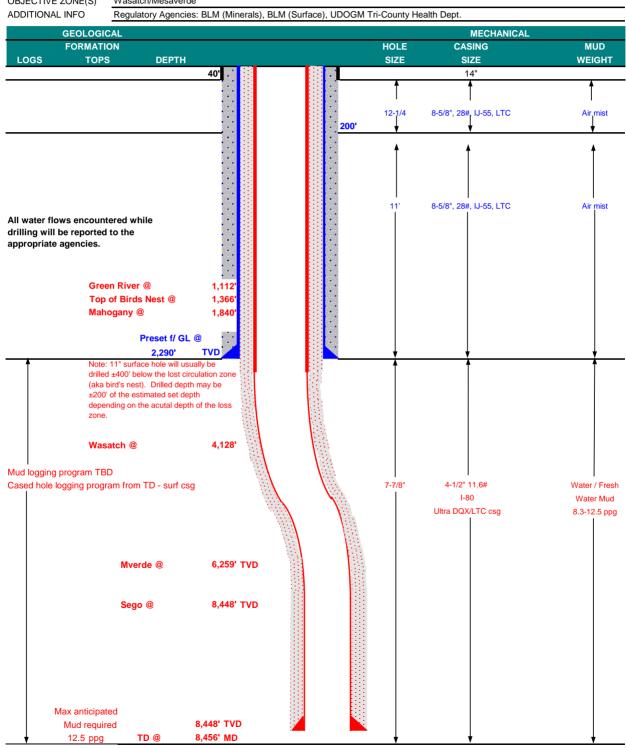
### 10. <u>Other Information:</u>

Please refer to the attached Drilling Program.



## KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME KER	R-McGEE O	IL & GAS ONSH	HORE LP		DATE	Februar	y 27, 2012	
WELL NAME <b>BO</b>	NANZA 10	23-7D1CS			TD	8,448'	TVD	8,456' MD
FIELD Natural Butte	S	COUNTY	Uintah	STATE Uta	ıh	FINISH	HED ELEVATION_	5192
SURFACE LOCATION	NWNW	597 FNL	629 FWL	Sec 7	T 10S	R 23E		
	Latitude:	39.969020	Longitud	de: -109.37	6598		NAD 83	
BTM HOLE LOCATION	NWNW	579 FNL	823 FWL	Sec 7	T 10S	R 23E		
	Latitude:	39.969073	Longitud	de: -109.37	5907		NAD 83	
OBJECTIVE ZONE(S)	Wasatch/M	lesaverde						
ADDITIONAL INFO	Regulatory	Agencies: BLM	(Minerals), B	LM (Surface	), UDOGI	M Tri-County	/ Health Dept.	





### **KERR-McGEE OIL & GAS ONSHORE LP**

### **DRILLING PROGRAM**

CASING PROGRAI	<u>VI</u>								DESIGN	FACTORS	
										LTC	DQX
	SIZE	INT	ERVAL		WT.	GR.	CPLG.	BURST	COLLA	APSE	TENSION
CONDUCTOR	14"	0	-40'								
								3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0	to	2,290	28.00	IJ-55	LTC	2.36	1.75	6.20	N/A
								7,780	6,350	223,000	267,035
PRODUCTION	4-1/2"	0	to	5,000	11.60	I-80	DQX	1.11	1.16		3.37
	4-1/2"	5,000	to	8,456'	11.60	I-80	LTC	1.11	1.16	6.88	

Surface Casing:

(Burst Assumptions: TD =

12.5 ppg)

0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing\*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @

7000 psi)

0.64 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing\*Buoy.Fact. of water)

### **CEMENT PROGRAM**

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGH	łΤ	YIELD
SURFACE LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80		1.15
Option 1		+ 0.25 pps flocele					
TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80		1.15
		+ 2% CaCl + 0.25 pps flocele					
SURFACE		NOTE: If well will circulate water	to surface	, option 2 w	ill be utilized		
Option 2 LEAD	1,790'	65/35 Poz + 6% Gel + 10 pps gilsonite	170	35%	11.00		3.82
		+ 0.25 pps Flocele + 3% salt BWOW					
TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80		1.15
		+ 0.25 pps flocele					
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80		1.15
PRODUCTION LEAD	3,626'	Premium Lite II +0.25 pps	280	35%	12.00		3.38
		celloflake + 5 pps gilsonite + 10% gel					
		+ 0.5% extender					
TAIL	4,830'	50/50 Poz/G + 10% salt + 2% gel	1,140	35%	14.30		1.31
		+ 0.1% R-3					

<sup>\*</sup>Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

### FLOAT EQUIPMENT & CENTRALIZERS

SURFACE

Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe

PRODUCTION

Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well. 1 centralizer on the first 3 joints and one every third joint thereafter.

### ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys	will be	taken a	t 1,000'	minimum	intervals.
---------	---------	---------	----------	---------	------------

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING	<b>ENGINEER:</b>
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Nick Spence / Danny Showers / Chad Loesel

DRILLING SUPERINTENDENT:

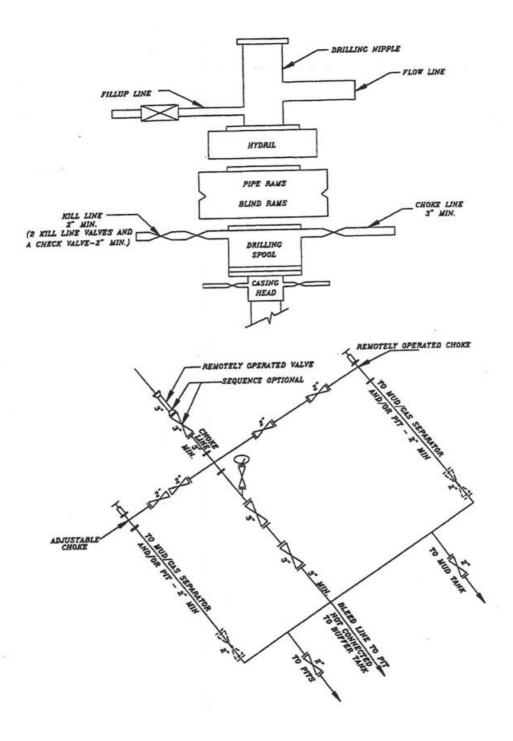
Kenny Gathings / Lovel Young

DATE:

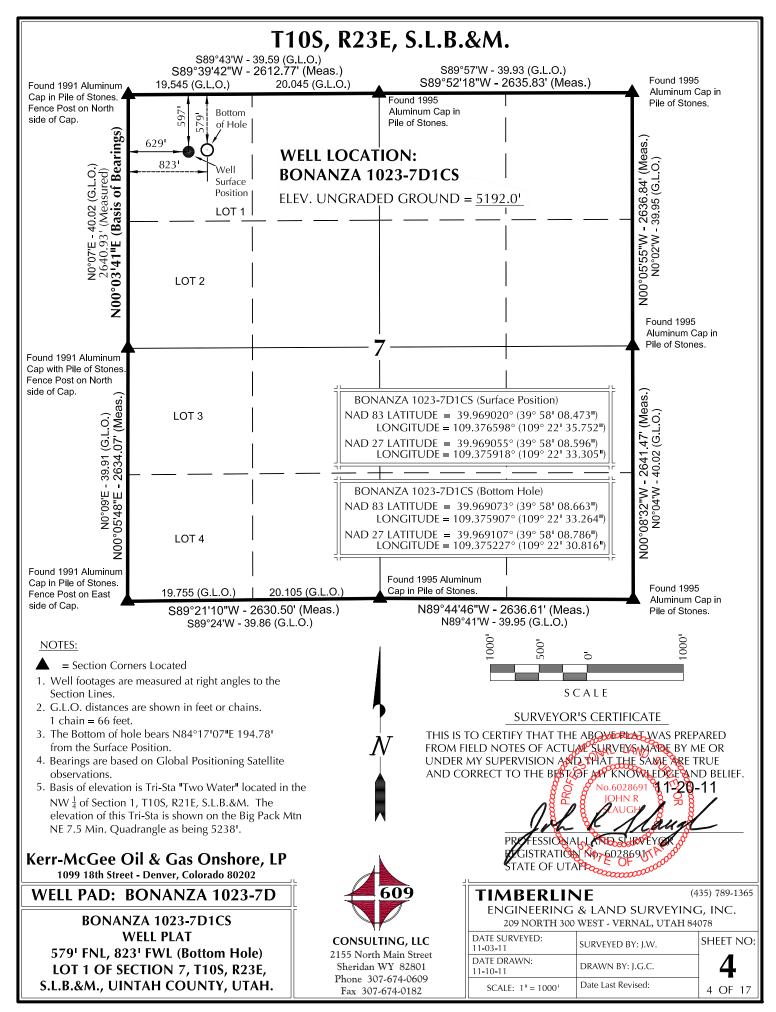
Bonanza 1023-7D Pad- Directional Drilling Program Approved by Drilling- 022712.xlsx

<sup>\*</sup>Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

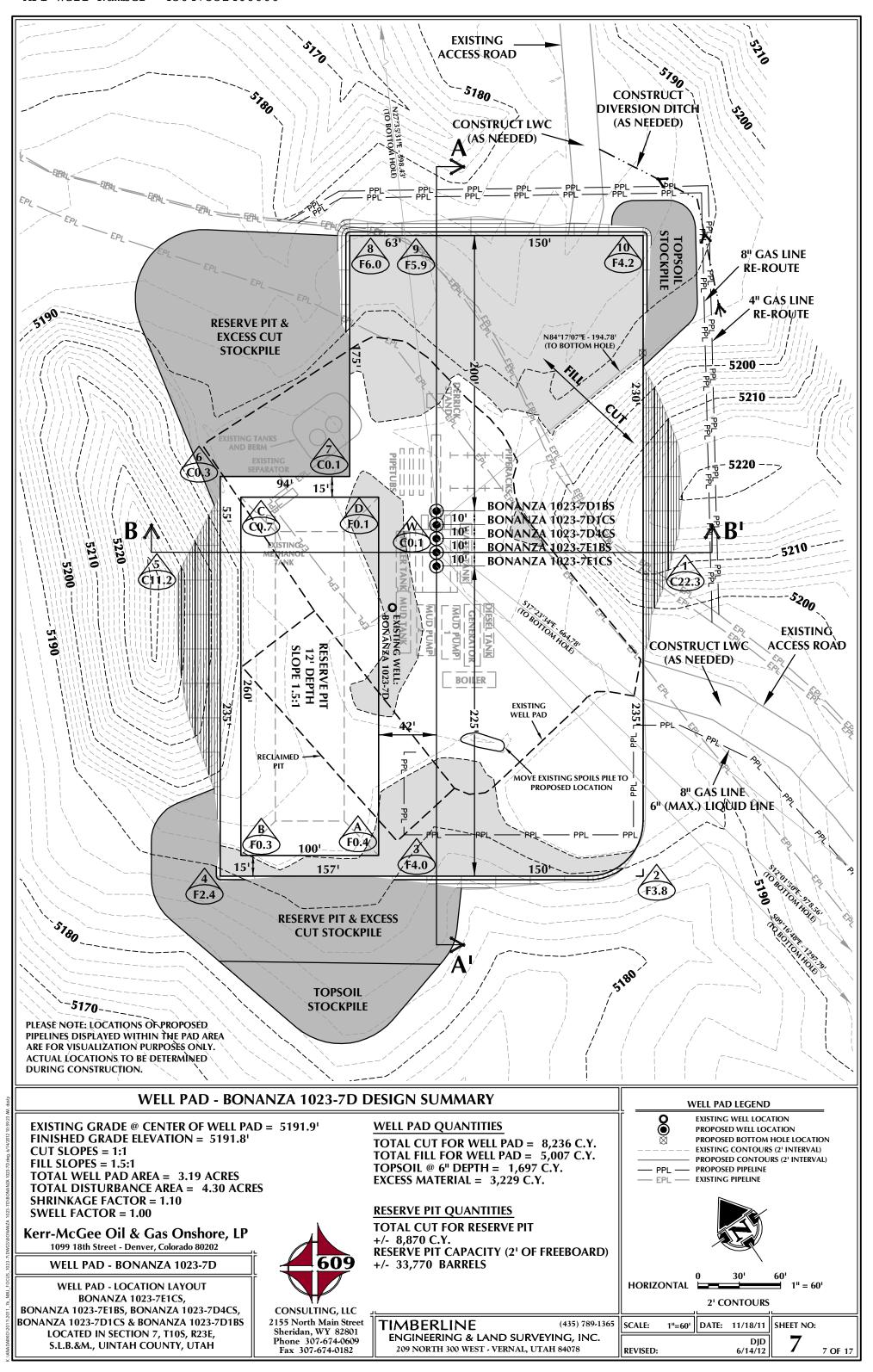
EXHIBIT A BONANZA 1023-7D1CS

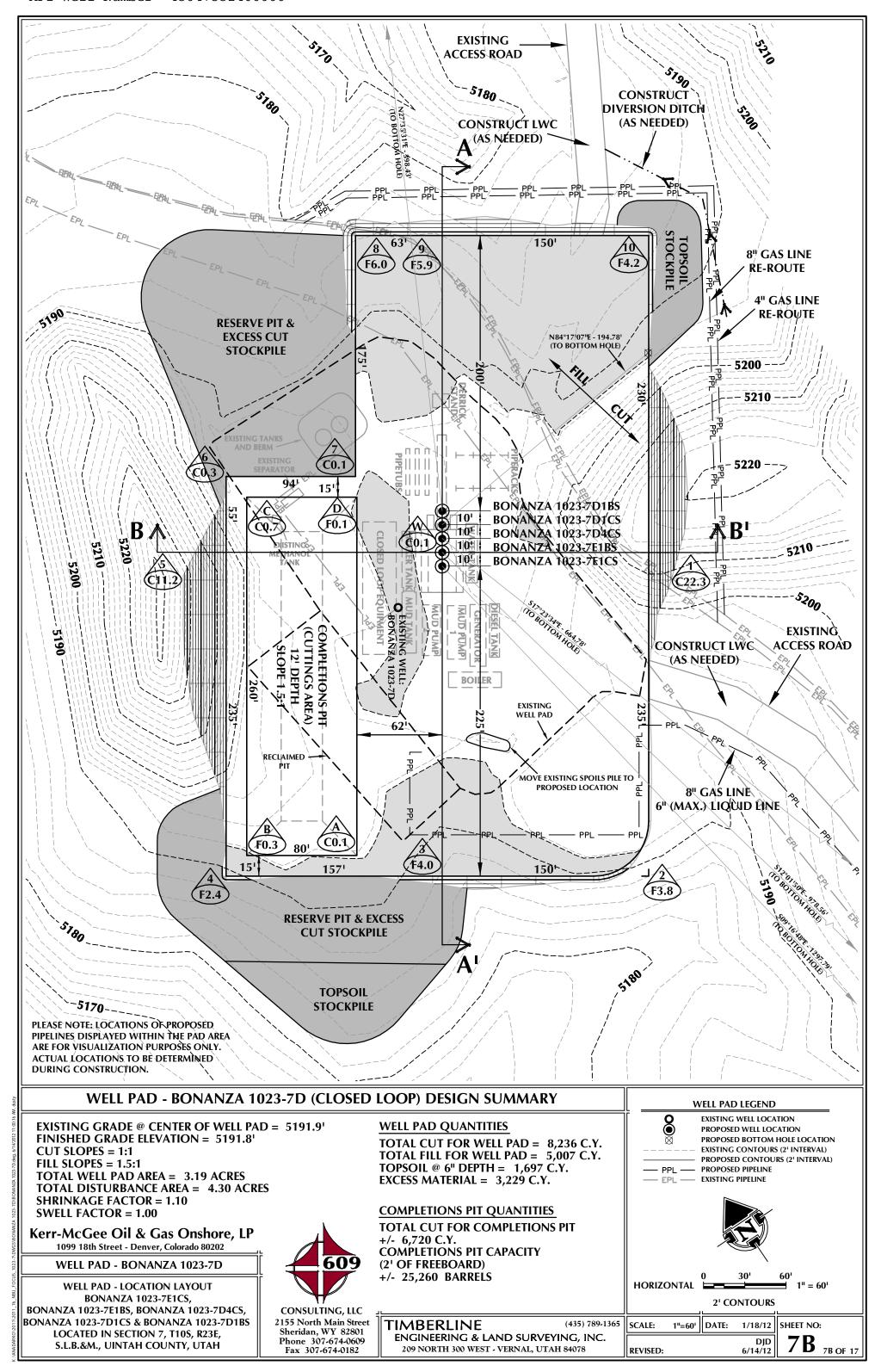


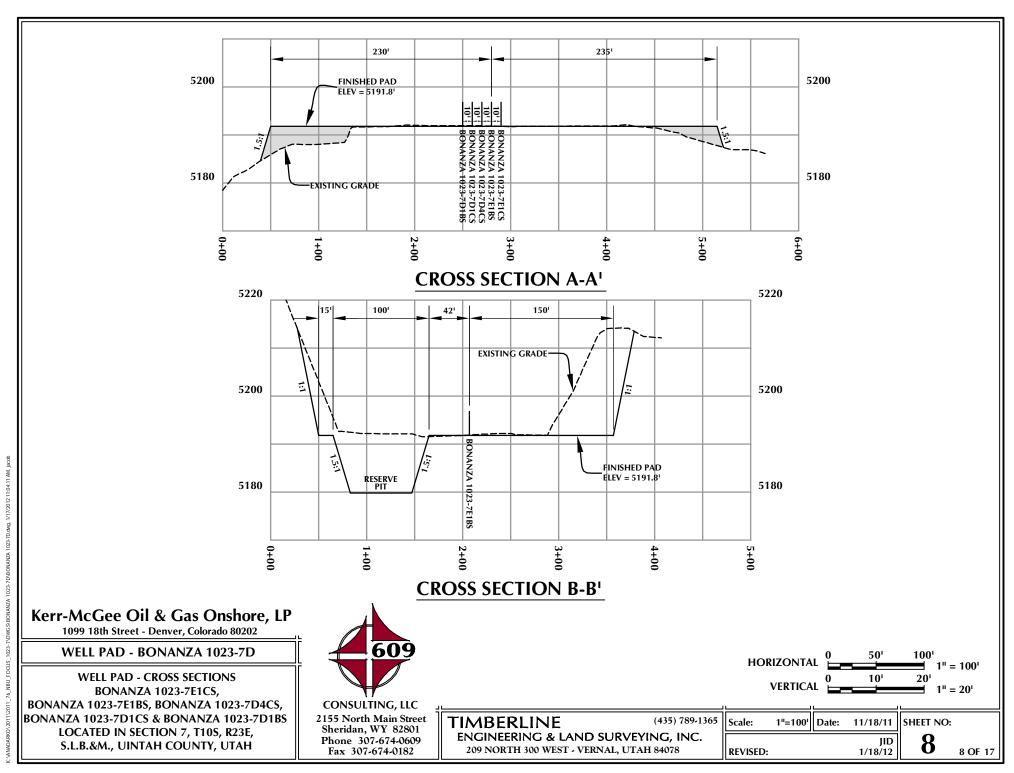
SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

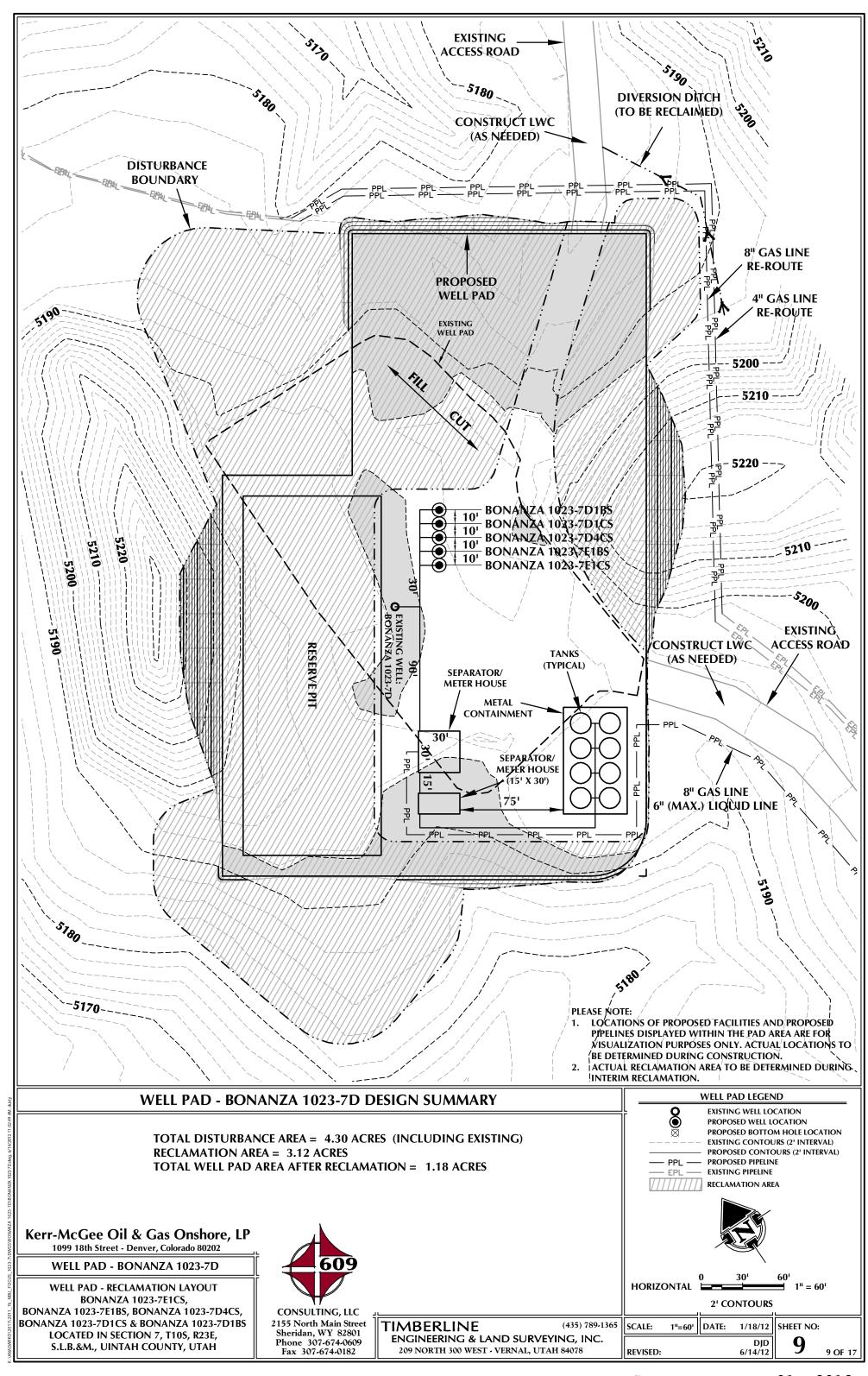


		_	SURFACE PO:	SITION					В	OTTOM HOLE		
WELL NAME	NAI			NAD27				NAD	83	NAI		
BONANZA	<b>LATITUDE</b> 39°58'08.228"	109°22'35.		DE LONG .351" 109°22		FOOTAGES	39°57'5		LONGITUDE 109°22'33.299"	LATITUDE	LONGITUDE 109°22'30.851"	1904' FNL
1023-7E1CS	39.968952°	109-22-35.				622' FNL 612' FWL	39.9654		109.375916°	39.965471°	109-22-30.851 109.375236°	823 FWL
BONANZA	39°58'08.310"	109°22'35.	897" 39°58'08	.433" 109°22	'33.449"	614' FNL	39°57'5	8.852"	109°22'33.290"		109°22'30.842"	1572' FNL
1023-7E1BS	39.968975° 39°58'08.392"	109.376638				618' FWL	39.9663		109.375914°	39.966382°	109.375234°	8231 FWL
BONANZA 1023-7D4CS	39.968998°	109°22'35.3 109.376618		.515"   109°22 2°   109.37!		605' FNL 624' FWL	39°58'0 39.9672		109°22'33.281" 109.375911°	39°58'02.245" 39.967290°	109°22'30.834" 109.375232°	1241' FNL 823' FWL
BONANZA	39°58'08.473"	109°22'35.		.596" 109°22		597' FNL	39°58'C		109°22'33.264"	39°58'08.786"		579' FNL
1023-7D1CS	39.969020°	109.376598				629' FWL	39.9690		109.375907°	39.969107°	109.375227°	8231 FWL
BONANZA 1023-7D1BS	39°58'08.555" 39.969043°	109°22'35.0		.678"   109°22 7°   109.37!		589' FNL 635' FWL	39°58'1 39.9700		109°22'33.306" 109.375918°	39°58'12.165" 39.970046°		2371 FNL
BONANZA	39°58'08.161"	109.376376 109°22'36			'34.077"	629' FNL	39.9700	312	109.3/3910	39.970040	109.375238°	819' FWL
1023-7D	39.968934°	109.376812				569' FWL						
				TIVE COORD	INATES -							
WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAS		NAME	NORT		WELL NAM		EAST
BONANZA 1023-7E1CS	-1280.8'	209.31	BONANZA 1023-7E1BS	-957.1'	204.0	D' BON/	ANZA 7D4CS	<b>-</b> 634.	.4' 198.7'	BONANZA 1023-7D1C	1 19.4	193.81
WELL NAME	NORTH	EAST	1023 / 2155			1023	, 5		I	, ,		
BONANZA	353.11	184.5'		^						1/2		
1023-7D1BS	555.1	107.5								1 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 /		
OBSER\		. to Exist. V	°03'41"E. V.H.=238.724	17° 76.9' <b>B</b> 0	ONAN	JZA 1023	> 3-7D1B			(To Botto N84°17'07'	"F - 194./O	
Kerr-McC	Az. to Az. to Exi EXIS	Exist. W.H. xist. W.H.= st. W.H.=2 STING W	H.=242.2161 =246.73250° =252.82444° ! 61.00917° 43 /ELL: BON	1° 68.0' BO 59.3' BON 51.2' BON .8' BONA! ANZA 102	NANZ IANZA ANZA NZA 1	(A 1023-7 1023-7 1023-7 1023-7 €	O4CS	×0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	AZ=84	,28528°	
Kerr-Mc	Az. to Az. to Exist EXIS	Exist. W.H. xist. W.H.= st. W.H.=2 STING W	H.=242.2161 =246.73250° =252.82444° 1 61.00917° 43 /ELL: BON	1° 68.0' BO 59.3' BON 51.2' BON .8' BONA! ANZA 102	NANZ IANZA ANZA NZA 1	(A 1023-7 1023-7 1023-7 1023-7 €	O4CS 1BS S09°16'48"E AZ=170.7 AZ=170.7	×0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,	(To Bottom Hole) AZ=162.60722 AZ=162.604.78' AZ=167.96944° (To Bottom Hole) (To Bottom Hole) (To Bottom Hole)	AZ=84	.28528°	
Kerr-Mc0	Az. to Az. to Existance Az. to Existence	Exist. W.H. xist. W.H.= st. W.H.=2 STING W	H.=242.21611 =246.73250° =252.82444° 61.00917° 43 /ELL: BON  Dnshore, lado 80202	1° 68.0' BO 59.3' BON 51.2' BON .8' BONA! ANZA 102	NANZ IANZA ANZA NZA 1	(A 1023-7 1023-7 1023-7 1023-7 0023-7 1023-7 100	O4CS 1BS S09°16'48"E AZ=170.7 AZ=170.7	×0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,	(To Bottom Hole) AZ=162.60722 AZ=162.60723 AZ=167.96944° (To Bottom Hole) AZ=167.96944° (To Bottom Hole) AZ=167.96944° AZ=167.96944° AZ=167.96944° AZ=167.96944°	AZ=84	,28320	35) 789-1365
Kerr-Mc0	Az. to Az. to Exist EXIS	Exist. W.H. xist. W.H.= st. W.H.=2 STING W	H.=242.21611 =246.73250° =252.82444° 61.00917° 43 /ELL: BON  Dnshore, lado 80202	1° 68.0' BO 59.3' BON 51.2' BON .8' BONA! ANZA 102	NANZ IANZA ANZA NZA 1	(A 1023-7 1023-7 1023-7 1023-7 €	O4CS 1BS S09°16'48"E AZ=170.7 AZ=170.7	, o,	(To Bottom Hole) $AZ=162.60722^{\circ}$ $AZ=162.96944^{\circ}$ $AZ=162.60722^{\circ}$ $AZ=167.96944^{\circ}$ (To Bottom Hole) $AZ=162.96946^{\circ}$ (To Bottom Hole) $AZ=167.96946^{\circ}$	AZ=84	.28320	35) 789-1365 5 INC
Kerr-McC	Az. to Az. to Existance Az. to Existence	Exist. W.H. xist. W.H.= st. W.H.=2 STING W NANZA	H.=242.21611=246.73250°=252.82444° S61.00917° 43/ELL: BON/	1° 68.0' BO 59.3' BON 51.2' BON .8' BONA! ANZA 102	NANZ IANZA ANZA NZA 1	(A 1023-7 1023-7 1023-7 1023-7 0023-7 1023-7 100	O4CS 1BS S09°16'48"E AZ=170.7 AZ=170.7	, o,	(To Bottom Hole)  (To Bottom Hole)  AZ=162:60722  AZ=167:96944°  (To Bottom Hole)  AZ=162:07150 E - 978:56  BERIA	AZ=84	,26320 (4: SURVEYINC	i, INC.
Kerr-McC 1099 13 WELL P	Az. to Az. to Exist EXIS  Gee Oil & Bth Street - De	Exist. W.H. xist. W.H. sist. W.H.	H.=242.21611=246.73250°=252.82444° S61.00917° 43/ELL: BON/	1° 68.0' BO 59.3' BON 51.2' BON .8' BONA! ANZA 102	NANZIANZA ANZA 123-7D	A 1023-7 1023-7 1023-7E10 023-7E10	O4CS 1BS AZ=170.72000° AZ=170.72000° AZ=170.72000°	70,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,	(To Bottom Hole)  (To Bottom Hole)  AZ=162.60722  AZ=167.96944  AZ=167.96946  AZ=167.23'34"E 64.78 (To Bottom Hole)  (To Bottom Hole)  AZ=167.96946  AZ=167.	AZ=84	(4: SURVEYINC RNAL, UTAH 840	i, INC. 178
Kerr-McC 1099 13 WELL P WELL WE	Az. to Az. to Exist EXIS  Gee Oil & Bth Street - De AD - BON	Exist. W.H. xist. W.H. sist. W.H.	H.=242.21611 =246.73250° =252.82444° 61.00917° 43 /ELL: BON  Dnshore, lado 80202 1023-7E CE PLAT 7E1CS,	1º 68.0'BO 59.3'BON 51.2'BON .8'BONA! ANZA 102	NANZIANZA ANZA 123-7D	A 1023-7 1023-7 1023-7E10 023-7E10	O4CS	70,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,	(To Bottom Hole)  (To Bottom Hole)  AZ=162.60722  AZ=167.96944°  AZ=167.96944°  AZ=167.96944°  AZ=167.96946°  AZ=167.96946°  AZ=167.96946°  AZ=167.96946°  AZ=167.96946°  AZ=167.96946°  AZ=167.96946°  BERIA  SURVEYED:  SURVEYED:	AZ=84	(4: SURVEYINC RNAL, UTAH 840	i, INC.
Kerr-McC 1099 13 WELL P WELL WE BONANZA	Az. to Az. to Exist EXIS  Gee Oil & Bth Street - De AD - BON  PAD INTE	Exist. W.H. xist. W.H. sist. W.H.	Dnshore, lado 80202  CE PLAT 7E1CS, A 1023-7D40	1° 68.0' BO 59.3' BON 51.2' BON .8' BONA! ANZA 102	NANZIANZA ANZA 1 23-7D	A 1023-7 1023-7 1023-7 1023-7 023-7 0 0 0 1 1 1009 1009 1009 1009 1009 100	O4CS 1BS AZ=170.72000° AZ=170.72000° AZ=170.72000°	1797.79 E DATE 11-03 DATE	To Bottom Hole;  (To Bottom Hole)  AZ=162.60722  AZ=167.96944°  AZ=167.96946°  AZ=167.96946°  AZ=167.96946°  AZ=167.96946°  AZ	AZ=84  INE IG & LAND 300 WEST - VER SURVEYED E	(4: SURVEYINC RNAL, UTAH 840 3Y: J.W.	i, INC. 178
Kerr-McC 1099 13 WELL P WELL WE BONANZA BONANZA 1	Az. to Az. to Exist EXIS  Gee Oil & Bth Street - De  AD - BON  PAD INTE	Exist. W.H. xist. W.H. sist. W.H.	Dnshore, lado 80202  CE PLAT 7E1CS, A 1023-7D1  CA 1023-7D1	1° 68.0' BO 59.3' BON 51.2' BON .8' BONA! ANZA 102	NANZIANZA ANZA 1 23-7D	A 1023-7 1023-7 1023-7E10 023-7E10	O4CS S09°16'48"E - 120°0 AZ=170.72000° AZ=170.72000° AZ=170.72000°	70, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	To Bottom Hole;  (To Bottom Hole)  AZ=162.60722  AZ=167.96944°  AZ=167.96946°  AZ=167.96946°  AZ=167.96946°  AZ=167.96946°  AZ	AZ=84	SURVEYINC RNAL, UTAH 840 BY: J.W.	i, INC. 178









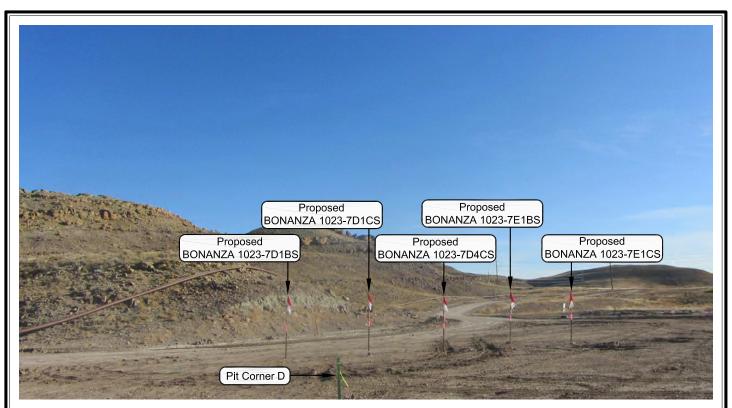


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

**CAMERA ANGLE: SOUTHEASTERLY** 



PHOTO VIEW: FROM EXISTING ACCESS ROAD

### **CAMERA ANGLE: NORTHEASTERLY**

## Kerr-McGee Oil & Gas Onshore, LP

1099 18th Street - Denver, Colorado 80202

### WELL PAD - BONANZA 1023-7D

**LOCATION PHOTOS** BONANZA 1023-7E1CS, BONANZA 1023-7E1BS, BONANZA 1023-7D4CS, BONANZA 1023-7D1CS & BONANZA 1023-7D1BS LOCATED IN SECTION 7, T10S, R23E, S.L.B.&M., UINTAH COUNTY, UTAH.



### CONSULTING, LLC 2155 North Main Street Sheridan WY 82801 Phone 307-674-0609 Fax 307-674-0182

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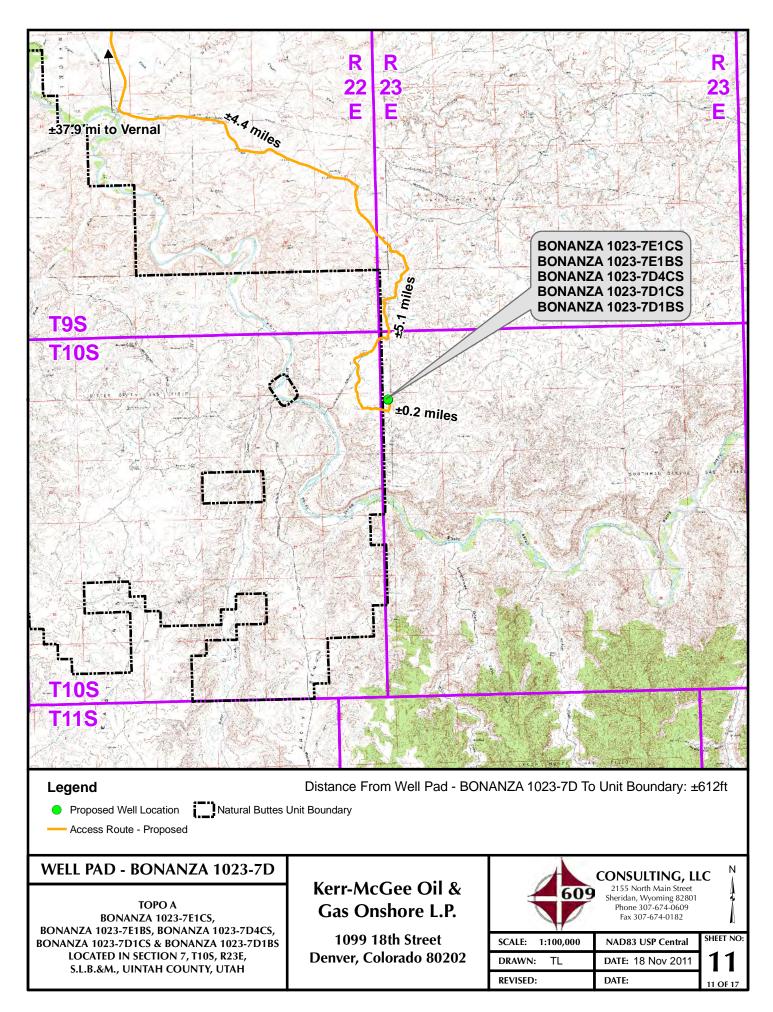
Date Last Revised:

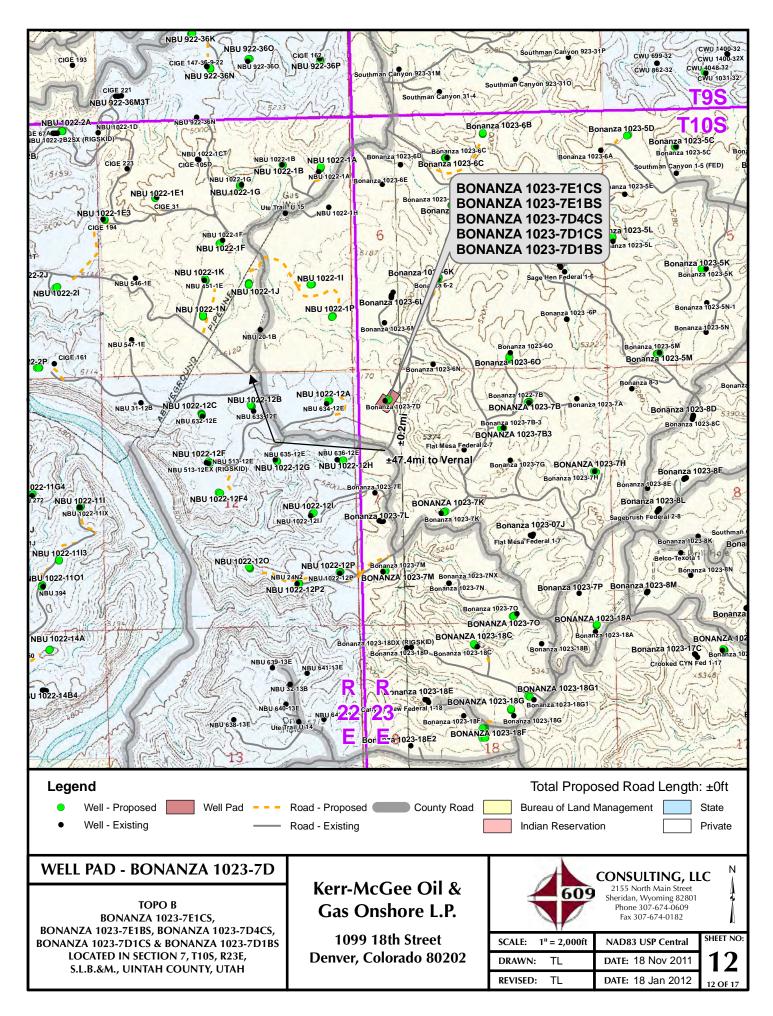
(435) 789-1365

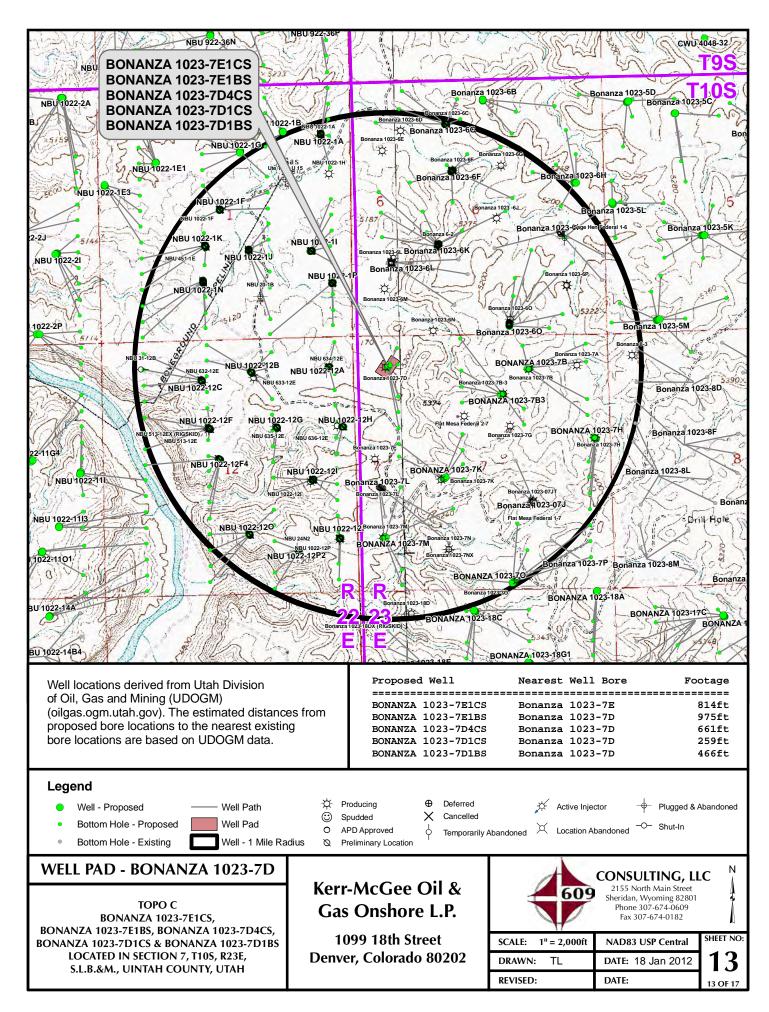
10 OF 17

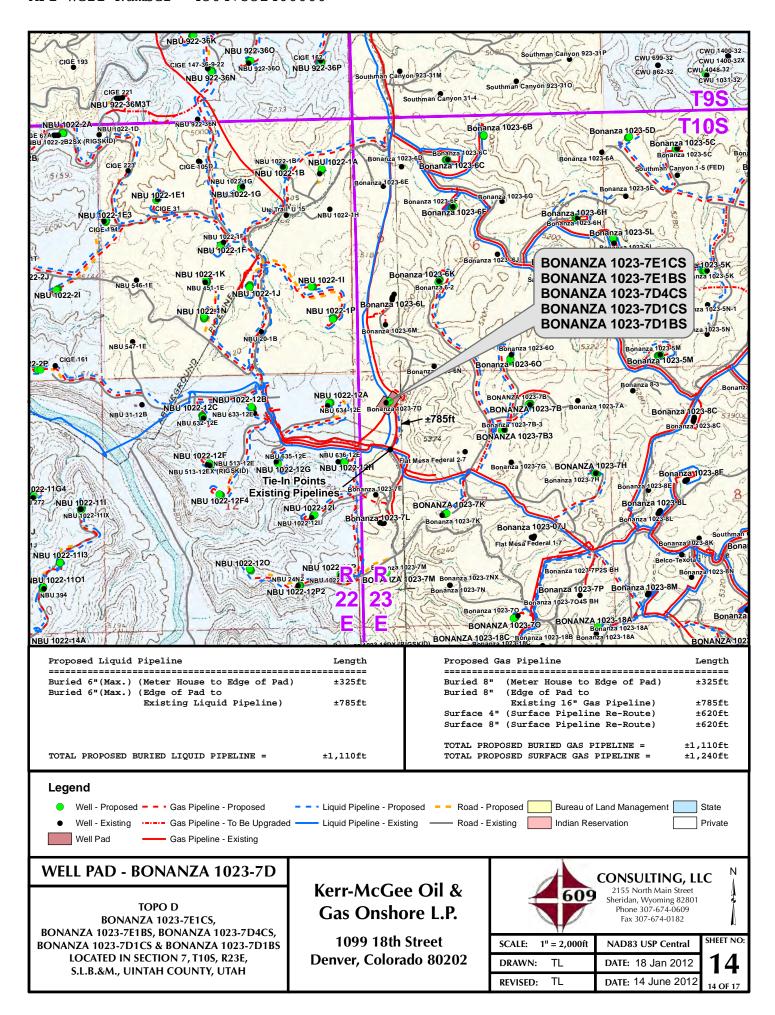
ENGINEERING & LAND SURVEYING, INC. 209 NORTH 300 WEST - VERNAL, UTAH 84078

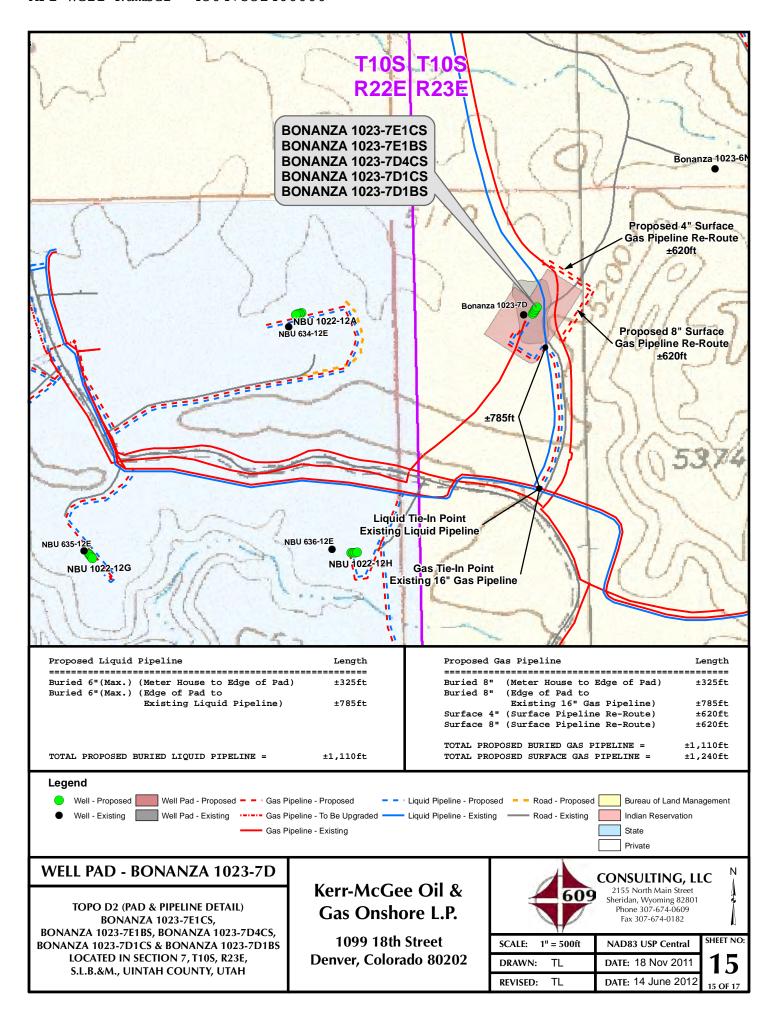
	·	
DATE PHOTOS TAKEN: 11 <b>-</b> 03-11	PHOTOS TAKEN BY: J.W.	SHEET NO:
DATE DRAWN: 11-10-11	DRAWN BY: J.G.C.	10

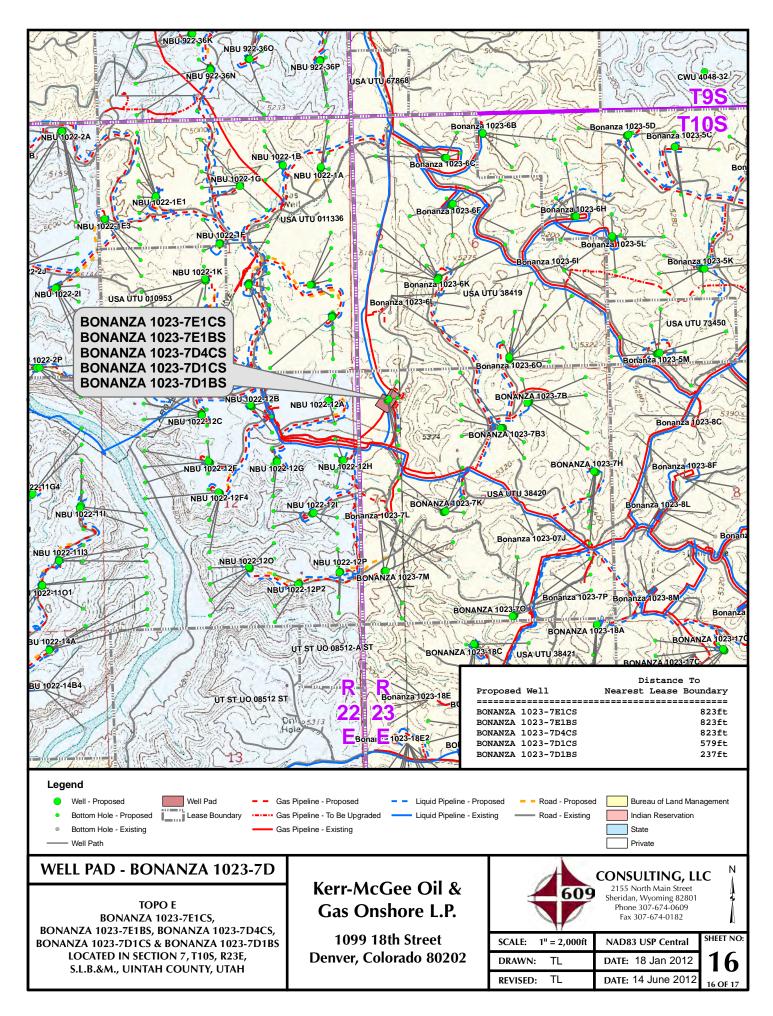












Kerr-McGee Oil & Gas Onshore, LP WELL PAD – BONANZA 1023-7D WELLS – BONANZA 1023-7E1CS, BONANZA 1023-7E1BS, BONANZA 1023-7D4CS, BONANZA 1023-7D1CS & BONANZA 1023-7D1BS Section 7, T10S, R23E, S.L.B.&M.

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 14.4 miles to the intersection of the Fidlar Road (County B Road 3410) which road intersection is approximately 400 feet northeast of the Mountain Fuel Bridge at the White River. Exit left and proceed in a southeasterly direction along the Fidlar Road approximately 4.4 miles to the intersection of the Seven Sisters Road (County B Road 3420). Exit right and proceed in a southeasterly, then southerly, then southeasterly direction along the Seven Sisters Road approximately 5.1 miles to an existing service road to the north. Exit left and proceed in a northerly direction along the service road approximately 0.2 miles to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 47.6 miles in a southerly direction.

SHEET 17 OF 17

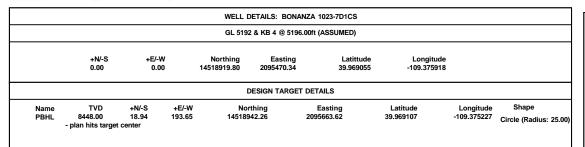
API Well Number: 43047532 Arco @ Wintah County, UT UTM12 Site: BONANZA 1023-7D PAD Scientific Drilling Wellbore: OH

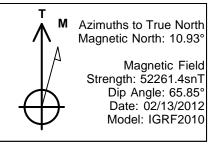
Rocky Mountain Operations

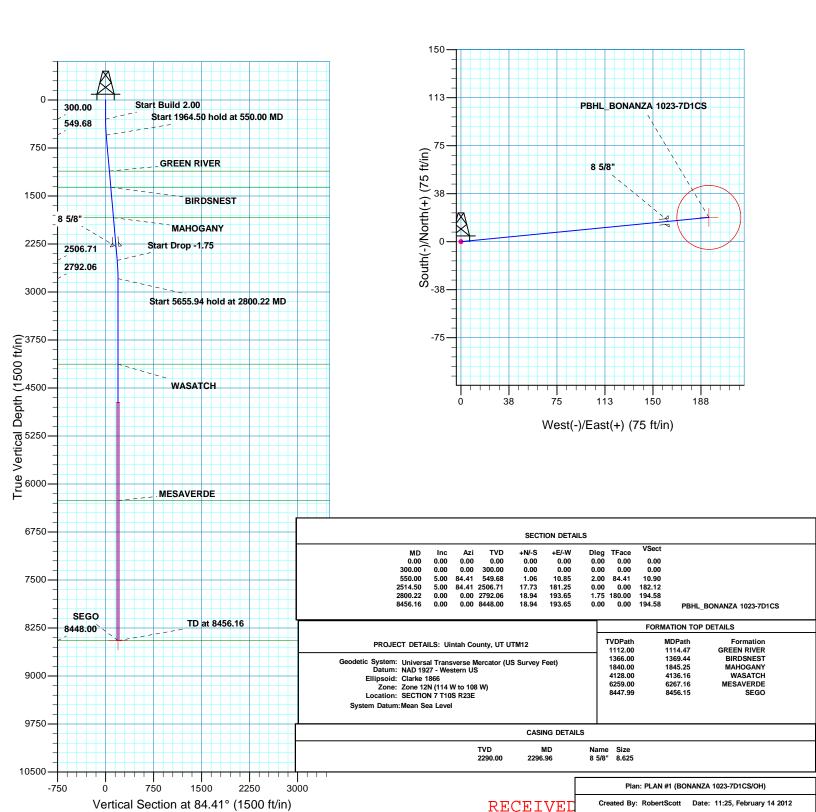
Well: BONANZA 1023-7D1CS

Design: PLAN #1









RECEIVE



# **Kerr McGee Oil and Gas Onshore LP**

Uintah County, UT UTM12 BONANZA 1023-7D PAD BONANZA 1023-7D1CS

ОН

Plan: PLAN #1

## **Standard Planning Report**

14 February, 2012





### SDI Planning Report



EDM5000-RobertS-Local Database:

Company: Kerr McGee Oil and Gas Onshore LP

Project: Uintah County, UT UTM12 BONANZA 1023-7D PAD Site:

Wellbore: PLAN #1 Design:

Well:

Map Zone:

BONANZA 1023-7D1CS ОН

**Local Co-ordinate Reference:** 

**TVD Reference:** MD Reference: North Reference:

**Survey Calculation Method:** 

Well BONANZA 1023-7D1CS

GL 5192 & KB 4 @ 5196.00ft (ASSUMED) GL 5192 & KB 4 @ 5196.00ft (ASSUMED)

Minimum Curvature

Project Uintah County, UT UTM12

Map System: Universal Transverse Mercator (US Survey Feet)

NAD 1927 - Western US Geo Datum: Zone 12N (114 W to 108 W) System Datum: Mean Sea Level

BONANZA 1023-7D PAD, SECTION 7 T10S R23E Site

Northing: 14,518,894.37 usft Site Position: Latitude: 39.968986 From: Lat/Long Easting: 2,095,453.98 usft Longitude: -109.375978 **Position Uncertainty:** 0.00 ft Slot Radius: **Grid Convergence:** 1.04 13.200 in

Well BONANZA 1023-7D1CS, 597 FNL 629 FWL

**Well Position** +N/-S 25.13 ft 14,518,919.80 usft Latitude: 39.969055 Northing: +E/-W 16.82 ft Easting: 2,095,470.34 usft Longitude: -109.375918

**Position Uncertainty** 0.00 ft Wellhead Elevation: **Ground Level:** 5,192.00 ft

Wellbore ОН Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (nT) (°) (°) IGRF2010 02/13/12 10.93 65.85 52.261

PLAN #1 Design **Audit Notes:** Version: Phase: PLAN Tie On Depth: 0.00 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 84.41

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
550.00	5.00	84.41	549.68	1.06	10.85	2.00	2.00	0.00	84.41	
2,514.50	5.00	84.41	2,506.71	17.73	181.25	0.00	0.00	0.00	0.00	
2,800.22	0.00	0.00	2,792.06	18.94	193.65	1.75	-1.75	0.00	180.00	
8,456.16	0.00	0.00	8,448.00	18.94	193.65	0.00	0.00	0.00	0.00 PE	BHL_BONANZA 10



## **SDI**Planning Report



Database: Company:

Project:

Site: Well: EDM5000-RobertS-Local

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12 BONANZA 1023-7D PAD BONANZA 1023-7D1CS

Wellbore: OH
Design: PLAN #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well BONANZA 1023-7D1CS

GL 5192 & KB 4 @ 5196.00ft (ASSUMED) GL 5192 & KB 4 @ 5196.00ft (ASSUMED)

True

Minimum Curvature

ign:	PLAN #1								
nned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2									
400.00	2.00	84.41	399.98	0.17	1.74	1.75	2.00	2.00	0.00
500.00	4.00	84.41	499.84	0.68	6.95	6.98	2.00	2.00	0.00
550.00	5.00	84.41	549.68	1.06	10.85	10.90	2.00	2.00	0.00
	0 hold at 550.00								
600.00	5.00	84.41	599.49	1.49	15.19	15.26	0.00	0.00	0.00
700.00	5.00	84.41	699.11	2.33	23.86	23.97	0.00	0.00	0.00
800.00	5.00	84.41	798.73	3.18	32.54	32.69	0.00	0.00	0.00
900.00	5.00	84.41	898.35	4.03	41.21	41.41	0.00	0.00	0.00
1,000.00	5.00	84.41	997.97	4.88	49.88	50.12	0.00	0.00	0.00
1,100.00	5.00	84.41	1,097.59	5.73	58.56	58.84	0.00	0.00	0.00
1,114.47	5.00	84.41	1,112.00	5.85	59.81	60.10	0.00	0.00	0.00
GREEN RIV		•	.,2.00	0.00	00.01	00.10	0.00	0.00	0.00
1,200.00	5.00	84.41	1,197.21	6.58	67.23	67.55	0.00	0.00	0.00
1,200.00		04.41	1,197.21						
1,300.00	5.00	84.41	1,296.83	7.42	75.91	76.27	0.00	0.00	0.00
1,369.44	5.00	84.41	1,366.00	8.01	81.93	82.32	0.00	0.00	0.00
BIRDSNEST	-								
1,400.00	5.00	84.41	1,396.45	8.27	84.58	84.98	0.00	0.00	0.00
1,500.00	5.00	84.41	1,496.07	9.12	93.25	93.70	0.00	0.00	0.00
1,600.00	5.00	84.41	1,595.69	9.97	101.93	102.41	0.00	0.00	0.00
1,700.00	5.00	84.41	1,695.31	10.82	110.60	111.13	0.00	0.00	0.00
1,800.00	5.00	84.41	1,794.93	11.67	119.28	119.85	0.00	0.00	0.00
1,845.25	5.00	84.41	1,840.00	12.05	123.20	123.79	0.00	0.00	0.00
MAHOGAN									
1,900.00	5.00	84.41	1,894.55	12.51	127.95	128.56	0.00	0.00	0.00
2,000.00	5.00	84.41	1,994.17	13.36	136.63	137.28	0.00	0.00	0.00
2,100.00	5.00	84.41	2,093.78	14.21	145.30	145.99	0.00	0.00	0.00
2,200.00	5.00	84.41	2,193.40	15.06	153.97	154.71	0.00	0.00	0.00
2,296.96	5.00	84.41	2,290.00	15.88	162.38	163.16	0.00	0.00	0.00
8 5/8"									
2.300.00	5.00	84.41	2,293.02	15.91	162.65	163.42	0.00	0.00	0.00
2,400.00	5.00	84.41	2,392.64	16.76	171.32	172.14	0.00	0.00	0.00
2,500.00	5.00	84.41	2,492.26	17.60	180.00	180.86	0.00	0.00	0.00
2,514.50	5.00	84.41	2,506.71	17.73	181.25	182.12	0.00	0.00	0.00
Start Drop -									
2,600.00	3.50	84.41	2,591.97	18.34	187.56	188.46	1.75	-1.75	0.00
2,700.00	1.75	84.41	2,691.86	18.79	192.13	193.04	1.75	-1.75	0.00
2,800.00	0.00	84.41	2,791.84	18.94	193.65	194.58	1.75	-1.75	0.00
2,800.22	0.00	0.00	2,792.06	18.94	193.65	194.58	1.75	-1.75	0.00
	4 hold at 2800.22								
2,900.00	0.00	0.00	2,891.84	18.94	193.65	194.58	0.00	0.00	0.00
3,000.00	0.00	0.00	2,991.84	18.94	193.65	194.58	0.00	0.00	0.00
3,100.00	0.00	0.00	3,091.84	18.94	193.65	194.58	0.00	0.00	0.00
3,200.00	0.00	0.00	3,191.84	18.94	193.65	194.58	0.00	0.00	0.00
3,300.00	0.00	0.00	3,291.84	18.94	193.65	194.58	0.00	0.00	0.00
3,400.00	0.00	0.00	3,391.84	18.94	193.65	194.58	0.00	0.00	0.00
3,500.00	0.00	0.00	3,491.84	18.94	193.65	194.58	0.00	0.00	0.00
3,600.00	0.00	0.00	3,591.84	18.94	193.65	194.58	0.00	0.00	0.00
3,700.00	0.00	0.00	3,691.84	18.94	193.65	194.58	0.00	0.00	0.00



## **SDI**Planning Report



Database: Company: Project:

Site:

EDM5000-RobertS-Local

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12 BONANZA 1023-7D PAD

Well: BONANZ
Wellbore: OH
Design: PLAN #1

BONANZA 1023-7D1CS OH Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well BONANZA 1023-7D1CS

GL 5192 & KB 4 @ 5196.00ft (ASSUMED) GL 5192 & KB 4 @ 5196.00ft (ASSUMED)

True

Minimum Curvature

Design:		PLAN #1								
Planned Surve	2V									
riailileu Surve	≢y									
Meası Dep (ft	oth	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3.8	300.00	0.00	0.00	3,791.84	18.94	193.65	194.58	0.00	0.00	0.00
	00.00	0.00	0.00	3,891.84	18.94	193.65	194.58	0.00	0.00	0.00
	00.00	0.00	0.00	3,991.84	18.94	193.65	194.58	0.00	0.00	0.00
	100.00	0.00	0.00	4,091.84	18.94	193.65	194.58	0.00	0.00	0.00
	136.16	0.00	0.00	4,128.00	18.94	193.65	194.58	0.00	0.00	0.00
	ATCH									
		0.00	0.00	4.404.04	40.04	400.05	404.50	0.00	0.00	0.00
,	200.00	0.00	0.00	4,191.84	18.94	193.65	194.58	0.00	0.00	0.00
,	300.00	0.00	0.00	4,291.84	18.94 18.94	193.65	194.58 194.58	0.00	0.00	0.00
	00.00 500.00	0.00 0.00	0.00 0.00	4,391.84 4,491.84	18.94	193.65 193.65	194.58	0.00 0.00	0.00 0.00	0.00 0.00
	800.00	0.00	0.00	4,591.84	18.94	193.65	194.58	0.00	0.00	0.00
4,0	00.00	0.00	0.00			193.03		0.00		0.00
	700.00	0.00	0.00	4,691.84	18.94	193.65	194.58	0.00	0.00	0.00
	300.00	0.00	0.00	4,791.84	18.94	193.65	194.58	0.00	0.00	0.00
	00.00	0.00	0.00	4,891.84	18.94	193.65	194.58	0.00	0.00	0.00
	00.00	0.00	0.00	4,991.84	18.94	193.65	194.58	0.00	0.00	0.00
5,1	100.00	0.00	0.00	5,091.84	18.94	193.65	194.58	0.00	0.00	0.00
5,2	200.00	0.00	0.00	5,191.84	18.94	193.65	194.58	0.00	0.00	0.00
5,3	300.00	0.00	0.00	5,291.84	18.94	193.65	194.58	0.00	0.00	0.00
5,4	100.00	0.00	0.00	5,391.84	18.94	193.65	194.58	0.00	0.00	0.00
5,5	500.00	0.00	0.00	5,491.84	18.94	193.65	194.58	0.00	0.00	0.00
5,6	00.00	0.00	0.00	5,591.84	18.94	193.65	194.58	0.00	0.00	0.00
5.7	700.00	0.00	0.00	5,691.84	18.94	193.65	194.58	0.00	0.00	0.00
	300.00	0.00	0.00	5,791.84	18.94	193.65	194.58	0.00	0.00	0.00
	00.00	0.00	0.00	5,891.84	18.94	193.65	194.58	0.00	0.00	0.00
	00.00	0.00	0.00	5,991.84	18.94	193.65	194.58	0.00	0.00	0.00
	100.00	0.00	0.00	6,091.84	18.94	193.65	194.58	0.00	0.00	0.00
6.2	200.00	0.00	0.00	6,191.84	18.94	193.65	194.58	0.00	0.00	0.00
	267.16	0.00	0.00	6,259.00	18.94	193.65	194.58	0.00	0.00	0.00
MESA	AVERDE									
6,3	300.00	0.00	0.00	6,291.84	18.94	193.65	194.58	0.00	0.00	0.00
6,4	100.00	0.00	0.00	6,391.84	18.94	193.65	194.58	0.00	0.00	0.00
6,5	500.00	0.00	0.00	6,491.84	18.94	193.65	194.58	0.00	0.00	0.00
6,6	00.00	0.00	0.00	6,591.84	18.94	193.65	194.58	0.00	0.00	0.00
6,7	700.00	0.00	0.00	6,691.84	18.94	193.65	194.58	0.00	0.00	0.00
6,8	300.00	0.00	0.00	6,791.84	18.94	193.65	194.58	0.00	0.00	0.00
	00.00	0.00	0.00	6,891.84	18.94	193.65	194.58	0.00	0.00	0.00
7,0	00.00	0.00	0.00	6,991.84	18.94	193.65	194.58	0.00	0.00	0.00
7.1	100.00	0.00	0.00	7,091.84	18.94	193.65	194.58	0.00	0.00	0.00
,	200.00	0.00	0.00	7,191.84	18.94	193.65	194.58	0.00	0.00	0.00
	300.00	0.00	0.00	7,291.84	18.94	193.65	194.58	0.00	0.00	0.00
7,4	100.00	0.00	0.00	7,391.84	18.94	193.65	194.58	0.00	0.00	0.00
7,5	500.00	0.00	0.00	7,491.84	18.94	193.65	194.58	0.00	0.00	0.00
7.6	00.00	0.00	0.00	7,591.84	18.94	193.65	194.58	0.00	0.00	0.00
	700.00	0.00	0.00	7,691.84	18.94	193.65	194.58	0.00	0.00	0.00
	300.00	0.00	0.00	7,791.84	18.94	193.65	194.58	0.00	0.00	0.00
	00.00	0.00	0.00	7,891.84	18.94	193.65	194.58	0.00	0.00	0.00
	00.00	0.00	0.00	7,991.84	18.94	193.65	194.58	0.00	0.00	0.00
8 1	100.00	0.00	0.00	8.091.84	18.94	193.65	194.58	0.00	0.00	0.00
	200.00	0.00	0.00	8,191.84	18.94	193.65	194.58	0.00	0.00	0.00
	300.00	0.00	0.00	8,291.84	18.94	193.65	194.58	0.00	0.00	0.00
	100.00	0.00	0.00	8,391.84	18.94	193.65	194.58	0.00	0.00	0.00
	156.15	0.00	0.00	8,447.99	18.94	193.65	194.58	0.00	0.00	0.00
SEGO										
0200										



## **SDI**Planning Report



Database: Company:

Project:

Site:

Well:

EDM5000-RobertS-Local

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12 BONANZA 1023-7D PAD BONANZA 1023-7D1CS

Wellbore: OH
Design: PLAN #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well BONANZA 1023-7D1CS

GL 5192 & KB 4 @ 5196.00ft (ASSUMED) GL 5192 & KB 4 @ 5196.00ft (ASSUMED)

True

Minimum Curvature

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,456.16	0.00	0.00	8,448.00	18.94	193.65	194.58	0.00	0.00	0.00
PBHL_BON	ANZA 1023-7D10	cs							

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_BONANZA 1023- - plan hits target cen - Circle (radius 25.00		0.00	8,448.00	18.94	193.65	14,518,942.27	2,095,663.61	39.969107	-109.375227

Casing Points						
	Measured	Vertical		Casing	Hole	
	Depth	Depth		Diameter	Diameter	
	(ft)	(ft)	Name	(in)	(in)	
	2,296.96	2,290.00 8 5/8"		8.625	11.000	

Formations						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	1,114.47	1,112.00	GREEN RIVER			
	1,369.44	1,366.00	BIRDSNEST			
	1,845.25	1,840.00	MAHOGANY			
	4,136.16	4,128.00	WASATCH			
	6,267.16	6,259.00	MESAVERDE			
	8,456.15	8,447.99	SEGO		0.00	

Plan Annotations				
Measured	Vertical	Local Coor	dinates	
Depth	Depth	+N/-S	+E/-W	
(ft)	(ft)	(ft)	(ft)	Comment
300.00	300.00	0.00	0.00	Start Build 2.00
550.00	549.68	1.06	10.85	Start 1964.50 hold at 550.00 MD
2,514.50	2,506.71	17.73	181.25	Start Drop -1.75
2,800.22	2,792.06	18.94	193.65	Start 5655.94 hold at 2800.22 MD
8,456.16	8,448.00	18.94	193.65	TD at 8456.16

### Kerr-McGee Oil & Gas Onshore. L.P.

### **BONANZA 1023-7D PAD**

<u>API #</u>	<u> </u>	BONANZA 1023-7D1BS		
	Surface:	589 FNL / 635 FWL	NWNW	Lot 1
	BHL:	237 FNL / 819 FWL	NWNW	Lot 1
<u>API #</u>	1	BONANZA 1023-7D1CS		
	Surface:	597 FNL / 629 FWL	NWNW	Lot 1
	BHL:	579 FNL / 823 FWL	NWNW	Lot 1
<u>API #</u>		BONANZA 1023-7D4CS		
	Surface:	605 FNL / 624 FWL	NWNW	Lot 1
	BHL:	1241 FNL / 823 FWL	NWNW	Lot 1
<u>API #</u>		BONANZA 1023-7E1BS		
	Surface:	614 FNL / 618 FWL	NWNW	Lot 1
	BHL:	1572 FNL / 823 FWL	SWNW	Lot 2
<u>API #</u>		BONANZA 1023-7E1CS		
	Surface:	622 FNL / 612 FWL	NWNW	Lot 1
	BHL:	1904 FNL / 823 FWL	SWNW	Lot 2

This Surface Use Plan of Operations (SUPO) or 13-point plan provides site-specific information for the above-referenced wells.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

An on-site meeting was held on December 7, 2011. Present were:

- · David Gordon, Tyler Cox BLM;
- · Jacob Dunham 609 Consulting;
- John Slaugh, Mitch Batty Timberline Engineering & Land Surveying, Inc.; and
- · Gina Becker, Charles Chase, Doyle Holmes, Grizz Oleen, Sheila Wopsock Kerr-McGee

### A. Existing Roads:

Existing roads consist of county and improved/unimproved access roads (two-tracks). In accordance with Onshore Order #1, Kerr-McGee will, in accordance with BMPs, improve or maintain existing roads in a condition that is the same as or better than before operations began. New or reconstructed proposed access roads are discussed in Section B.

The existing roads will be maintained in a safe and usable condition. Maintenance for existing roads will continue until final abandonment and reclamation of well pads and/or other facilities, as applicable. Road maintenance will include, but is not limited to, blading, ditching, and/or culvert installation and cleanout. To ensure safe operating conditions, gravel surfacing will be performed where excessive rutting or erosion may occur. Dust control will be performed as necessary to ensure safe operating conditions.

Roads, gathering lines and electrical distribution lines will occupy common disturbance corridors where possible. Where available, roadways will be used as the staging area and working space for installation of gathering lines. All disturbances located in the same corridor will overlap each other to the maximum extent possible, while maintaining safe and sound construction and installation practices. Unless otherwise approved or requested in site specific

documents, in no case will the maximum disturbance widths of the access road and utility corridors exceed the widths specified in Part D of this document.

Please refer to Topo B, for existing roads.

### B. New or Reconstructed Access Roads:

All new or reconstructed roads will be located, designed, and maintained to meet the standards of the BLM. BMPs. Described in the BLM's Surface Operating Standards for Oil and Gas Exploration and Development, 4th Edition (Gold Book) (USDI and USDA, 2007) and/or BLM Manual Section 9113 (1985) will be considered in consultation with the BLM in the design, construction, improvement and maintenance of all new or reconstructed roads. If a new road would cross a water of the United States, Kerr-McGee will adhere to the requirements of applicable Nationwide Permits of the Department of Army Corps of Engineers.

Each new well pad or pad expansion may require construction of a new access road and/or de-commissioning of an older road. Plans, routes, and distances for new roads and road improvements are provided in design packages, exhibits and maps for a project. Project-specific maps are submitted to depict the locations of existing, proposed, and/or decommissioned and include the locations for supporting structures, including, but not limited to, culverts, bridges, low water crossings, range infrastructure, and haul routes, as per OSO 1. Designs for cuts and fills, including spoils source and storage areas, are provided with the road designs, as necessary.

Where safety objectives can be met. As applicable, Kerr-McGee may use unimproved and/or two-track roads for lease operations, to lessen total disturbance.

Road designs will be based on the road safety requirements, traffic characteristics, environmental conditions, and the vehicles the road is intended to carry. Generally, newly constructed unpaved lease roads will be crowned and ditched with the running surfaces of the roads approximately 12-18 feet wide and a total road corridor width not to exceed 45 feet, except where noted in the road design for a specific project. Maximum grade will generally not exceed 8%. Borrow ditches will be back sloped 3:1 or less. Construction BMPs will be employed to control onsite and offsite erosion.

Where topography would direct storm water runoff to an access road or well pad, drainage ditches or other common drainage control facilities, such as V- or wing-ditches, will be constructed to divert surface water runoff. Drainage features, including culverts, will be constructed or installed prior to commencing other operations, including drilling or facilities placement. Riprap will be placed at the inlet and outlet at the culvert(s), as necessary.

Prior to construction, new access road(s) will be staked according to the requirements of OSO 1. Construction activity will not be conducted using frozen or saturated materials or during periods when significant watershed damage (e.g. rutting, extensive sheet soil erosion, formation of rills/gullies, etc.) is likely to occur. Vegetative debris will not be placed in or under fill embankments.

New road maintenance will include, but is not limited to, blading, ditching, culvert installation and cleanout, gravel surfacing where excessive rutting or erosion may occur and dust control, as necessary to ensure safe operating conditions. All vehicular traffic, personnel movement, construction/restoration operations will be confined to the approved area and to existing roadways and/or access routes.

Snow removal will be conducted on an as-needed basis to accommodate safe travel. Snow removal will occur as necessary throughout the year, as will necessary drainage ditch construction. Removed snow may be stored on permitted well pads to reduce hauling distances and/or at the aerial extent of approved disturbance boundaries to facilitate snow removal for the remainder of the season.

If a county road crossing or encroachment permit is needed, it will be obtained prior to construction.

### C. Location of Existing Wells:

A) Refer to Topo Map C.

### D. Location of Existing and/or Proposed Facilities:

This pad will expand the existing pad for the Bonanza 1023-7D, which is a producing gas well according to Utah Division of Oil, Gas and Mining (UDOGM) records on February 15, 2012. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (Kerr-McGee).

Should the well(s) prove productive, production facilities will be installed on the disturbed portion of each well pad. A berm will be constructed completely around production components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will generally be constructed of compacted subsoil or corrugated metal, and will hold the capacity of the largest tank and have sufficient freeboard to accomodate a 25 year rainfall event. This includes pumping units. Aboveground structures constructed or installed onsite for 6 months or longer, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with the BLM (typically Shadow Gray). A production facility layout is provided as part of a project-specific APD, ROW or NOS submission.

### **GAS GATHERING**

Please refer to Exhibit A and Topo D2- Pad and Pipeline Detail.

The gas gathering pipeline material: Steel line pipe. Surface = Bare pipe. Buried = Coated with fusion bonded epoxy coating (or equivalent). The total gas gathering pipeline distance from the meter to the tie in point is  $\pm 1,765$ ' and a  $\pm 1,240$ ' surface pipeline re-route. The individual segments are broken up as follows:

### The following re-route segments are "onlease", no ROW needed.

- $\pm620^{\circ}~(0.18~\text{miles})$  Section 7 T10S R23E (NW/4 NW/4) On-lease UTU-38420, BLM surface, 4" re-routed surface gas gathering pipeline along the northeast edge of the pad. Please refer to Topo D2 Pad and Pipeline Detail.
- $\pm620^{\circ}~(0.18~\text{miles})$  Section 7 T10S R23E (NW/4 NW/4) On-lease UTU-38420, BLM surface, 8" re-routed surface gas gathering pipeline along the southeast edge of the pad. Please refer to Topo D2 Pad and Pipeline Detail.

### The following segments are "onlease", no ROW needed.

- ±325' (0.1 miles) Section 7 T10S R23E (NW/4 NW/4) On-lease UTU38420, BLM surface, New 8" buried gas gathering pipeline from the meter to the edge of the pad. Please refer to Topo D2 Pad and Pipeline Detail.
- ±785' (0.14 miles) Section 7 T10S R23E (NW/4 NW/4) On lease UTU-38420, BLM surface, New 8" buried gas gathering pipeline from the edge of the pad traveling south to the tie-in point at the existing buried 16' gas gathering pipeline. Please refer to Exhibit A1, Line 3.

### **LIQUID GATHERING**

Please refer to Exhibit B and Topo D2- Pad and Pipeline Detail.

The total liquid gathering pipeline distance from the separator to the tie in point is  $\pm 1,765$ ° and the individual segments are broken up as follows:

Bonanza 1023-7D1BS/ 1023-7D1CS/ 1023-D4CS/ 1023-7E1BS/ 1023-7E1CS

Surface Use Plan of Operations 4 of 13

### The following segments are "onlease", no ROW needed.

- ±325' (0.1 miles) Section 7 T10S R23E (NW/4 NW/4) On-lease UTU-38420, BLM surface, New 6" buried liquid gathering pipeline from the separator to the edge of the pad. Please refer to Topo D2 Pad and Pipeline Detail.
- $\pm 785$ ' (0.14 miles) Section 7 T10S R23E (NW/4 NW/4) On lease UTU-38420, BLM surface, New 6" buried liquid gathering pipeline from the edge of the pad traveling south to the tie-in point at the existing buried 16' gas gathering pipeline. Please refer to Exhibit B1, Line 3.

### **Pipeline Gathering Construction**

Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee. Gas gathering pipeline(s,) gas lift, or liquids pipelines may be constructed to lie on the surface or be buried. Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. The area of disturbance during construction from the edge of road or well pad will typically be 30' in width. Where pipelines run cross country, the width of disturbance will typically be 45 ft for buried lines and 30 ft for surface lines. In addition, Kerr-McGee requests for a permanent 30' distrubance width that will be maintained for the portion adjacent to the road. The need for the 30' permanent distrubance width is for maintenance and repairs. Cross country permanent distrubance width also are required to be 30ft.

Above-ground installation will generally not require clearing of vegetation or blading of the surface, except where safety considerations necessitate earthwork. In some surface pipeline installation instances pipe cannot be constructed where it will lay. In these cases where an above-ground pipeline is constructed parallel and adjacent to a road, it will be welded/fused on the road and then lifted from the road to the pipeline route. In other cases where a pipeline route is not parallel and adjacent to a road (cross-country between sites), it will be welded/fused in place at a well pad, access road, or designated work area and pulled between connection locations with a suitable piece of equipment.

Buried pipelines will generally be installed parallel and adjacent to existing and/or newly constructed roads and within the permitted disturbance corridor. Buried pipelines may vary from 2 inches (typically fuel gas lines) to 24 inches (typically transportation lines) in diameter, but 6 to 16 inches is typical for a buried gas line. The diameter of liquids pipelines may vary from 2 inches to 12 inches, but 6 inches is the typical diameter. Gas lift lines may vary from 2 to 12 inches in diameter, but 6-inch diameter pipes are generally used for gas lift. If two or more pipelines are present (gas gathering, gas lift, and fluids), they will share a common trench where possible.

Typically, to install a buried pipeline, topsoil will be removed, windrowed and placed on the non-working side of the route for later reclamation. Because working room is limited, the spoil may be spread out across the working side and construction will take place on the spoil. The working side of the corridor will be used for pipe stringing, bending, welding and equipment travel. Small areas on the working side displaying ruts or uneven ground will be groomed to facilitate the safe passage of equipment. After the pipelines are installed, spoil will be placed back into the trench, and the topsoil will be redistributed over the disturbed corridor prior to final reclamation. Typical depth of the trench will be 6 feet, but depths may vary according to site-specific conditions (presence of bedrock, etc.). The proposed trench width for the pipeline would range from 18-48 inches.

The pipeline will be welded along the proposed route and lowered into place. Trenching equipment will cut through the soil or into the bedrock and create good backfill, eliminating the need to remove large rocks. The proposed buried pipeline will be visually and radiographically inspected and the entire pipeline will be pneumatically or hydrostatically tested before being placed into service. Routine vehicle traffic will be prevented from using pipeline routes as travel ways by posting signs at the route's intersection with an access road.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

Bonanza 1023-7D1BS/ 1023-7D1CS/ 1023-D4CS/ 1023-7E1BS/ 1023-7E1CS

Surface Use Plan of Operations 5 of 13

If pipelines or roads encounter a drainage that could be subject to flooding or surface water during extreme precipitation events, Kerr-McGee will apply all applicable Army Corps mandates as well as the BLM's Hydraulic Considerations for Pipeline Crossings of Stream Channels (BLM Technical Note 423, April 2007). In addition, all stream and drainage crossings will be evaluated to determine the need for stream alteration permits from the State of Utah Division of Water Rights and if necessary, required permits will be secured. Similarly, where a road or pipeline crossing exists the pipe will be butt welded and buried to a depth between 24 and 48 inches or more. Dirt roads will be cut and restored to a condition equivalent to the existing condition. All Uintah County road encroachment and crossing permits, where applicable, will be obtained prior to crossing construction. In no case will pressure testing of pipelines result in discharge of liquids to the surface.

Pipeline signs will be installed along the route to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves and lateral T's will be installed at various locations for production integrity and safety purposes.

Upon completion of the proposed buried pipeline, the entire area of disturbance will be reclaimed to the standards proposed in the Green River District Reclamation Guidelines. Please refer to section J for more details regarding final reclamation.

When no longer deemed necessary by the operator, Kerr-McGee or it's successor will consult with the BLM, Vernal Field Office before terminating of the use of the pipeline(s).

### The Anadarko Completions Transportation System (ACTS) information:

Please refer to Exhibit C for ACTs Lines

Kerr-McGee will use either a closed loop drilling system that will require one pit and one storage area to be constructed on the drilling pad or a traditional drilling operation with one pit. The storage area will be used to contain only the de-watered drill cuttings and will be lined and reclaimed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit is lined and will be used for the wells drilled on the pad or used as part of our Anadarko Completions Transportation (ACTS) system which is disussed in more detail below. Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completion pit.

If Kerr-McGee does not use a closed loop system, it will construct a drilling reserve pit to contain drill cuttings and for use in completion operations. Depending on the location of the pit, its relation to future drilling locations, the reserve/completion pit will be utilized for the completion of the wells on that pad and/or be used as part of our ACTS system.

Kerr-McGee will use ACTS to optimize the completion processes for multiple pads across the project area which may include up to a section of development. ACTS will facilitate management of frac fluids by utilizing existing reserve pits and temporary, surface-laid aluminum liquids transfer lines between frac locations. The pit will be refurbished as follows when a traditional drill pit is used: mix and pile up drill cuttings with dry dirt, bury the original liner in the pit, walk bottom of pit with cat. Kerr-McGee will reline the pit with a 30 mil liner and double felt padding. The refurbished pit will be the same size or smaller as specified in the originally approved ROW/APD. The pit refurb will be done in a normal procedure and there will be no modification to the pit.

All four sides of the completions pit will be fenced in according to standard pit fencing procedures. Netting will be installed over all pits.

Any hydrocarbons collected will be treated and sold at approved sales facilities. A loading rack with drip containment will also be installed where water trucks would unload and load to prevent damage caused from pulling hoses in and out of the pit .

ACTS will require temporarily laying multiple 6" aluminum water transfer lines on the surface between either existing or refurbished reserve pits. Please see the attached ACTS exhibit C for placement of the proposed temporary lines. The temporary aluminum transfer lines will be utilized to transport frac fluid being injected and/or recovered during the

completion process and will be laid adjacent to existing access roads or pipeline corridors. Upon completion of the frac operation, the liquids transfer lines will be flushed with fresh water and purged with compressed air. The contents of the transfer lines will be flushed into a water truck for delivery to another ACTS location or a reserve pit.

The volume of frac fluid transported through a water transfer line will vary, but volume is projected to be approximately 1.75 bbls per 50-foot joint. Although the maximum working pressure is 125 psig, the liquids transfer lines will be operated at a pressure of approximately 30 to 40 psig. Kerr-McGee requests to keep the netted pit open for one year from first production of the first produced well on the pad. During this time the surrounding well location completion fluids may be recycled in this pit and utilized for other frac jobs in the area. After one year Kerr-McGee will backfill the pit and reclaim. If the pit is not needed for an entire year it will be backfilled and reclaimed earlier. Kerr-McGee understands that due to the temporary nature of this system, BLM considers this a casual use situation; therefore, no permanent ROW or temporary use plan will need to be issued by the BLM.

### E. Location and Types of Water Supply:

Water for drilling and completion operations will be obtained from the following sources:

Permit # 49-2307	JD Field Services	Green River- Section 15, T2N, R22E
Permit # 49-2321	R.N. Industries	White River- Section 2, T10S, R24E
Permit # 49-2319	R.N. Industries	White River- Various Sources
Permit # 49-2320	R.N. Industries	Green River- Section 33, T8S, R23E

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

### F. Construction Materials:

Construction operations will typically be completed with native materials found on location. Construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source (described in site-specific documents). No construction materials will be removed from federal lands without prior approval from the BLM. A source location other than an on-location construction site will be designated either via a map or narrative within the project specific materials provided to the BLM.

### G. Methods for Handling Waste:

All wastes subject to regulation will be handled in compliance with applicable laws to minimize the potential for leaks or spills to the environment. Kerr-McGee also maintains a Spill Control and Countermeasure Plan, which includes notification requirements, including the BLM, for all reportable spills of oil, produced liquids, and hazardous materials.

Any accidental release, such as a leak or spill in excess of the reportable quantity, as established by 40 CFR Part 117.3, will be reported as per the requirements of CERCLA, Section 102 B. If a release involves petroleum hydrocarbons or produced liquids, Kerr-McGee will comply with the notification requirements of NTL-3A. Drill cuttings and/or drilling fluids will be contained in the reserve/frac pit whether a closed loop system is used or not. Cuttings will be buried in pit(s) upon closure. Unless specifically approved by the BLM, no oil or other oil-based drilling additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

Pits will be constructed to minimize the accumulation of surface precipitation runoff into the pit (via appropriate placement of subsoil storage areas and/or construction of berms, ditches, etc). Should unexpected liquid petroleum hydrocarbons (crude oil or condensate) be encountered during drilling, completions or well testing, liquid petroleum hydrocarbons will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be released into a reserve/completion pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by the BLM. Should timely removal not be feasible, the pit will be netted as soon as practical. Similarly,

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hydrocarbon removal will take place prior to the closure of the pit, unless authorization is provided for disposal via alternate pit closure methods (e.g. solidification).

The reserve and/or fracture stimulation pit will be lined with an impermeable liner. The liner will be a synthetic material 30 mil or thicker. The bottom and side walls of the pit will be void of any sharp rocks that could puncture the liner. The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. After evaporation and when dry, the reserve pit liners will be cut off, ripped and/or folded back (as safety considerations allow) as near to the mud surface as possible and buried on location or hauled to a landfill prior to backfilling the pit with a minimum of five feet of soil material.

Where necessary and if conditions (freeboard, etc.) allow, produced liquids from newly completed wells may be temporarily disposed of into pits for a period not to exceed 90 days as per Onshore Order Number 7 (OSO 7). Subsequently, permanent approved produced water disposal methods will be employed in accordance with OSO 7 and/or as described in a Water Management Plan (WMP). Otherwise, fluids disposal locations and associated haul routes, for ROW consideration, are typically depicted on Topo A of individual projects. Revisions to the water source or method of transportation will be subject to written approval from the BLM.

Any additional pits necessary for subsequent operations, such as temporary flare or workover pits, will be contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of work at a well location.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after one year from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse (trash and other solid waste including cans, paper, cable, etc.) generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility. Immediately after removal of the drilling rig, all debris and other waste materials not contained within trash receptacles will be collected and removed from the well location.

For the protection of livestock and wildlife, all open pits (excluding flare pits) will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet. Siphons, catchments, and absorbent pads will be installed to keep hydrocarbons produced by the drilling rig or other equipment on location from entering the reserve pit. Hydrocarbons, contaminated pads, and/or soils will be disposed of in accordance with state and federal requirements.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

### **Materials Management**

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term "hazardous materials" as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any

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hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Hazardous materials may be contained in some grease or lubricants, solvents, acids, paint, and herbicides, among others as defined above. Kerr-McGee maintains a file, per 29 CFR 1910.1200 (g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances that are used during the course of construction, drilling, completion, and production operations for this project. The transport, use, storage and handling of hazardous materials will follow procedures specified by federal and state regulations. Transportation of hazardous materials to the well location is regulated by the Department of Transportation (DOT) under 49 CFR, Parts 171-180. DOT regulations pertain to the packing, container handling, labeling, vehicle placarding, and other safety aspects.

Potentially hazardous materials used in the development or operation of wells will be kept in limited quantities on well sites and at the production facilities for short periods of time. Chemicals meeting the criteria for being an acutely hazardous material/substance or meet the quantities criteria per BLM Instruction Memorandum No. 93-344 will not be used.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities (crude oil/condensate, produced water). They may also be kept in limited quantities on drilling sites (barite, diesel fuel, cement, cottonseed hulls etc.) for short periods of time during drilling or completion activities.

Fluids disposal and pipeline/haul routes are depicted on Topo Map A.

Any produced water separated from recoverable condensate from the proposed well will be contained in a water tank and will then be transported by pipeline and/or truck to one of the pre-approved disposal sites:

> RNI in Sec. 5 T9S R22E NBU #159 in Sec. 35 T9S R21E Ace Oilfield in Sec. 2 T6S R20E MC&MC in Sec. 12 T6S R19E Pipeline Facility in Sec. 36 T9S R20E Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E

Bonanza Evaporation Pond in Sec. 2 T10S R23E

Or to one of the following Kerr-McGee active Salt Water Disposal (SWD) wells:

NBU 159 SWD in Sec. 35 T9S R21E CIGE 112D SWD in Sec. 19 T9S R21E CIGE 114 SWD in Sec. 34 T9S R21E NBU 921-34K SWD in Sec. 34 T9S R21E NBU 921-33F SWD in Sec. 34 T9S R21E

#### H. **Ancillary Facilities:**

No additional ancillary facilities are planned for this location.

### I. Well Site Layout:

The location, orientation and aerial extent of each drill pad, reserve/completion/flare pit (for closed loop or non-closed loop operations), access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure, proposed cuts and fills, and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment depending on whether a closed loop system is

used. Surface distance may be less if using closed loop. But in either case, the area of distrubance will not exceed the maximum disturbance outlined in the attached exhibits.

For the protection of livestock and wildlife, all open pits and cellars will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

Each well will utilize either a centralized tank battery, centralized fluids management system, or have tanks installed on its pad. Production/ Produced Liquid tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids and to prevent livestock or wildlife entry. The tanks will be kept reasonably free from surface accumulations of liquid hydrocarbons. The tanks are not to be used for disposal of liquids from additional sources without prior approval of BLM.

#### J. Plans for Surface Reclamation:

The surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. Interim reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.

Reclamation activities in both phases may include but is not limited to the re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

#### **Interim Reclamation**

Interim reclamation may include pit evaporation, fluid removal, pit solidification, re-contouring, ripping, spreading top soil, seeding, and/or weed control. Interim reclamation will be performed in accordance with OSO 1, or written notification will be provided to the BLM for approval. Where feasible, drilling locations, reserve pits, or access routes not utilized for production operations will be re-contoured to a natural appearance.

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for interim reclamation where practical to maintain soil viability. Where possible, the land surface will be left "rough" after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover.

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit. Disposal of pit fluids and linings is discussed in Section G.

#### Final Reclamation

Final reclamation will be performed for unproductive wells and after the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by Kerr-McGee. The primary purpose of this inspection will be to review the existing

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conditions, or agree upon a revised final reclamation and abandonment plan. The BLM will be notified prior to commencement of reclamation operations. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring the site to the approximate contour that existed prior to pad construction, final grading will be conducted over the entire surface of the well site and access road. The area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers, where practical. The surface soil material will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep, where practical. The entire area will be uniformly covered with the depressions constructed perpendicular to the natural flow of water.

Reclamation of roads will be performed at the discretion of the BLM. All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded in accordance with the seeding specifications of the BLM.

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to the BLM.

#### Measures Common to Interim and Final Reclamation

Soil preparation will be conducted using a disk for areas in need of more soil preparation following site preparation. This will provide primary soil tillage to a depth no greater than 6 inches. Prior to reseeding, compacted areas will be scarified by ripping or chiseling to loosen compacted soils, promote water infiltration, and improve soil aeration and root penetration.

Seeding will occur year-round as conditions allow and will typically be accomplished through the use of a no-till rangeland style seed drill with a "picker box" in order to seed "fluffy" seed. Where drill seeding is not the preferred method, seed will be broadcast and then raked into the ground at double the rate of drill seeding. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for re-vegetation. The seed mixes will be selected from a list provided by or approved by the BLM, or a specific seed mix will be proposed by Kerr-McGee to the BLM and used after its approval. The selected specific seed mix for each well location and road segment will be utilized while performing interim and final reclamation for each project. All seed will be certified and tags will be maintained by Kerr-McGee. Every effort will be made to obtain "cheat grass free seed".

Seed Mix to be used for Well Site, Access Road, and Pipeline (as applicable):

Bonanza Area Mix	Pure Live Seed lbs/acre
Crested Wheat (Hycrest)	2
Bottlebrush Squirreltail	1
Western Wheatgrass	1
Indian Ricegrass	1
Fourwing Saltbush	2
Shadscale	2
Forage Kochia	0.25
Rocky Mountain Bee	0.5
Total	9.75

Additional soil amendments and/or stabilization may be required on sites with poor soils and/or excessive erosion potential. Where severe erosion can become a problem and/or the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. Slopes will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These

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materials will include, but are not limited to: erosion control blankets, hydro-mulch, and/or bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage. Soil amendments such as "Sustain" (an organic fertilizer that will be applied at the rate 1,800 - 2,100 lbs/acre with seed) may also be dry broadcast or applied with hydro-seeding equipment.

#### **Weed Control**

All weed management will be done in accordance with the Vernal BLM Surface Disturbance Weed Policy. Noxious weeds will be controlled, as applicable, on project areas. Monitoring and management of noxious and/or invasive weeds of concern will be completed annually until the project is deemed successfully reclaimed by the surface management agency and/or owner according to the Anadarko Integrated Weed Management Plan. Noxious weed infestations will be mapped using a GPS unit and submitted to the BLM with information required in the Vernal BLM Surface Disturbance Weed Policy. If herbicide is to be applied it will be done according to an approved Pesticide Use Permit (PUP), inclusive of applicable locations. All pesticide applications will be recorded using a Pesticide Application Record (PAR) and will be submitted along with a Pesticide Use Report (PUR) annually prior to Dec. 31.

#### **Monitoring**

Monitoring of reclaimed project areas will be completed annually during the growing season and actions to ensure reclamation success will be taken as needed. During the first two growing seasons an ocular methodology will be used to determine the success of the reclamation activities. During the 3rd growing season a 200 point line intercept (quantitative) methodology will be used to obtain basal cover. The goal is to have the reclaimed area reach 30% basal cover when compared to the reference site. If after three growing seasons the area has not reached 30% basal cover, additional reclamation activities may be necessary. Monitoring will continue until the reclaimed area reaches 75% basal cover of desirable vegetation when compared to the reference site. (Green River District Reclamation Guidelines)

All monitoring reports will be submitted electronically to the Vernal BLM in the form of a geo-database no later than March 1st of the calendar year following the data collection.

#### K. Surface/Mineral Ownership:

United States of America Bureau of Land Management 170 South 500 East Vernal, UT 84078 (435)781-4400

#### L. Other Information:

#### **Onsite Specifics:**

- Construct diversion ditch as needed behind the topsoil stockpile at corner number 10.
- Construct low water crossing on access road where it crosses the low area east of corner number 2.
- Round corner number 2 (25' radius) to give additional distance from drainage.

#### **Cultural and Paleontological Resources**

All personnel are strictly prohibited from collecting artifacts, any paleontological specimens or fossils, and from disturbing any significant cultural resources in the area. If artifacts, fossils, or any culturally sensitive materials are exposed or identified in the area of construction, all construction operations that would affect the newly discovered resource will cease, and Kerr-McGee will provide immediate notification to the BLM.

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#### **Resource Reports:**

A Class I literature survey was completed on February 1, 2012 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC 11-400.

A paleontological reconnaissance survey was completed on November 15, 2011 by SWCA Environmental Consultants. For additional details please refer to report UT11-14314-187.

Biological field survey was completed on November 16, 2011 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-698.

#### **Proposed Action Annual Emissions Tables:**

Table 1: Proposed Action Annual Emissions (tons/year) <sup>1</sup>						
Pollutant	Development	Production	Total			
NOx	3.8	0.12	3.92			
CO	2.2	0.11	2.31			
VOC	0.1	4.9	5			
$SO_2$	0.005	0.0043	0.0093			
$PM_{10}$	1.7	0.11	1.81			
PM <sub>2.5</sub>	0.4	0.025	0.425			
Benzene	2.2E-03	0.044	0.046			
Toluene	1.6E-03	0.103	0.105			
Ethylbenzene	3.4E-04	0.005	0.005			
Xylene	1.1E-03	0.076	0.077			
n-Hexane	1.7E-04	0.145	0.145			
Formaldehyde	1.3E-02	8.64E-05	1.31E-02			

<sup>&</sup>lt;sup>1</sup> Emissions include 1 producing well and associated operations traffic during the year in which the project is developed

Table 2: Proposed Action versus 2012 WRAP Phase III Emissions Inventory Comparison						
Species	Proposed Action Production Emissions (ton/yr)	WRAP Phase III 2012 Uintah Basin Emission Inventory <sup>a</sup> (ton/yr)	to WRAP Phase			
NOx	` '	16,547	0.12%			
VOC	25	127,495	0.02%			

<sup>&</sup>lt;sup>a</sup> http://www.wrapair.org/forums/ogwg/PhaseIII\_Inventory.html

Uintah Basin Data

API Well Number: 43047532460000

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#### M. Lessee's or Operators' Representative & Certification:

Gina T. Becker Regulatory Analyst II Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6086 Tommy Thompson General Manager, Drilling Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

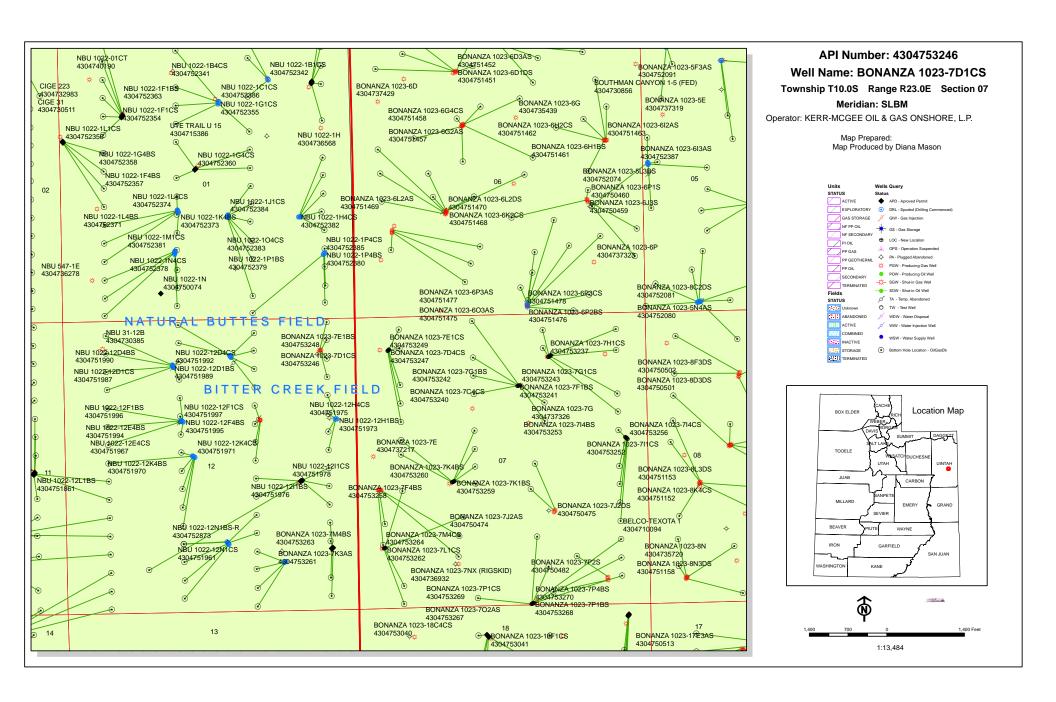
Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Gina T. Becker

June 28, 2012

Date



API Well Number: 43047532460000

# **United States Department of the Interior**

#### BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO: 3160 (UT-922)

October 2, 2012

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2012 Plan of Development Ponderosa Unit

Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2012 within the Ponderosa Unit, Uintah County, Utah.

API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE)

#### Pad 1023-17B

43-047-53177 BONANZA 1023-17F1BS Sec 17 T10S R23E 0671 FNL 1665 FEL BHL Sec 17 T10S R23E 1483 FNL 2139 FWL Sec 17 T10S R23E 0665 FNL 1656 FEL 43-047-53178 BONANZA 1023-17F1CS BHL Sec 17 T10S R23E 1813 FNL 2139 FWL 43-047-53179 BONANZA 1023-17G1BS Sec 17 T10S R23E 0654 FNL 1640 FEL BHL Sec 17 T10S R23E 1486 FNL 1810 FEL 43-047-53180 BONANZA 1023-17G1CS Sec 17 T10S R23E 0649 FNL 1631 FEL BHL Sec 17 T10S R23E 1816 FNL 1810 FEL 43-047-53181 BONANZA 1023-17H4BS Sec 17 T10S R23E 0644 FNL 1623 FEL BHL Sec 17 T10S R23E 2150 FNL 0493 FEL Pad 1023-17C4 43-047-53182 BONANZA 1023-17C1CS Sec 17 T10S R23E 0707 FNL 2230 FWL BHL Sec 17 T10S R23E 0595 FNL 2125 FWL 43-047-53183 BONANZA 1023-17D1CS Sec 17 T10S R23E 0715 FNL 2235 FWL BHL Sec 17 T10S R23E 0494 FNL 0823 FWL 43-047-53184 BONANZA 1023-17D4BS Sec 17 T10S R23E 0723 FNL 2241 FWL BHL Sec 17 T10S R23E 0822 FNL 0823 FWL 43-047-53185 BONANZA 1023-17D4DS Sec 17 T10S R23E 0732 FNL 2247 FWL

RECEIVED: October 02, 2012

BHL Sec 17 T10S R23E 1304 FNL 1267 FWL

API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE)

#### Pad 1023-17C4

43-047-53186 BONANZA 1023-17E1DS Sec 17 T10S R23E 0740 FNL 2253 FWL BHL Sec 17 T10S R23E 1673 FNL 1205 FWL

43-047-53187 BONANZA 1023-17E4AS Sec 17 T10S R23E 0748 FNL 2259 FWL

BHL Sec 17 T10S R23E 2057 FNL 1216 FWL

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#### Pad 1023-17G

43-047-53188 BONANZA 1023-17J1CS Sec 17 T10S R23E 2294 FNL 1749 FEL

BHL Sec 17 T10S R23E 2148 FSL 1813 FEL

43-047-53189 BONANZA 1023-17E4DS Sec 17 T10S R23E 2363 FNL 1871 FEL

BHL Sec 17 T10S R23E 2466 FNL 1215 FWL

43-047-53190 BONANZA 1023-17F4BS Sec 17 T10S R23E 2355 FNL 1877 FEL

BHL Sec 17 T10S R23E 2143 FNL 2139 FWL

43-047-53191 BONANZA 1023-17F4CS Sec 17 T10S R23E 2372 FNL 1865 FEL

BHL Sec 17 T10S R23E 2472 FNL 2138 FWL

43-047-53192 BONANZA 1023-17G4BS Sec 17 T10S R23E 2269 FNL 1766 FEL

BHL Sec 17 T10S R23E 2146 FNL 1810 FEL

43-047-53194 BONANZA 1023-17G4CS Sec 17 T10S R23E 2278 FNL 1760 FEL

BHL Sec 17 T10S R23E 2476 FNL 1809 FEL

43-047-53195 BONANZA 1023-17H4CS Sec 17 T10S R23E 2200 FNL 1644 FEL

BHL Sec 17 T10S R23E 2480 FNL 0493 FEL

43-047-53196 BONANZA 1023-17I1BS Sec 17 T10S R23E 2208 FNL 1639 FEL

BHL Sec 17 T10S R23E 2482 FSL 0493 FEL

43-047-53197 BONANZA 1023-17I1CS Sec 17 T10S R23E 2217 FNL 1633 FEL

BHL Sec 17 T10S R23E 2151 FSL 0493 FEL

43-047-53198 BONANZA 1023-17I4BS Sec 17 T10S R23E 2233 FNL 1622 FEL

BHL Sec 17 T10S R23E 1820 FSL 0493 FEL

43-047-53199 BONANZA 1023-17I4CS Sec 17 T10S R23E 2258 FNL 1605 FEL

BHL Sec 17 T10S R23E 1489 FSL 0493 FEL

43-047-53200 BONANZA 1023-17J1BS Sec 17 T10S R23E 2286 FNL 1755 FEL

BHL Sec 17 T10S R23E 2478 FSL 1809 FEL

43-047-53201 BONANZA 1023-17J4BS Sec 17 T10S R23E 2303 FNL 1744 FEL

BHL Sec 17 T10S R23E 1817 FSL 1809 FEL

43-047-53202 BONANZA 1023-17J4CS Sec 17 T10S R23E 2311 FNL 1738 FEL

BHL Sec 17 T10S R23E 1487 FSL 1808 FEL

43-047-53203 BONANZA 1023-17K1BS Sec 17 T10S R23E 2433 FNL 1993 FEL

BHL Sec 17 T10S R23E 2474 FSL 2138 FWL

API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE)

Pad 1023-17G

43-047-53204 BONANZA 1023-17L1AS Sec 17 T10S R23E 2380 FNL 1860 FEL

BHL Sec 17 T10S R23E 2422 FSL 1183 FWL

43-047-53205 BONANZA 1023-17L1CS Sec 17 T10S R23E 2424 FNL 1998 FEL BHL Sec 17 T10S R23E 2140 FSL 0822 FWL

43-047-53206 BONANZA 1023-17L4BS Sec 17 T10S R23E 2441 FNL 1987 FEL

BHL Sec 17 T10S R23E 1811 FSL 0822 FWL

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43-047-53207 BONANZA 1023-17L4CS Sec 17 T10S R23E 2449 FNL 1982 FEL

BHL Sec 17 T10S R23E 1482 FSL 0822 FWL

43-047-53208 BONANZA 1023-17K1CS Sec 17 T10S R23E 2458 FNL 1976 FEL

BHL Sec 17 T10S R23E 2144 FSL 2138 FWL

43-047-53209 BONANZA 1023-17K4BS Sec 17 T10S R23E 2483 FNL 1959 FEL

BHL Sec 17 T10S R23E 1814 FSL 2138 FWL

43-047-53210 BONANZA 1023-17K4CS Sec 17 T10S R23E 2388 FNL 1854 FEL

BHL Sec 17 T10S R23E 1484 FSL 2137 FWL

43-047-53211 BONANZA 1023-17M1BS Sec 17 T10S R23E 2466 FNL 1971 FEL

BHL Sec 17 T10S R23E 1153 FSL 0822 FWL

43-047-53212 BONANZA 1023-17M1CS Sec 17 T10S R23E 2474 FNL 1965 FEL

BHL Sec 17 T10S R23E 0823 FSL 0822 FWL

43-047-53213 BONANZA 1023-17M4BS Sec 17 T10S R23E 2491 FNL 1954 FEL

BHL Sec 17 T10S R23E 0494 FSL 0822 FWL

43-047-53214 BONANZA 1023-17N1BS Sec 17 T10S R23E 2397 FNL 1849 FEL

BHL Sec 17 T10S R23E 1155 FSL 2137 FWL

43-047-53215 BONANZA 1023-1701BS Sec 17 T10S R23E 2319 FNL 1732 FEL

BHL Sec 17 T10S R23E 1157 FSL 1808 FEL

43-047-53216 BONANZA 1023-1701CS Sec 17 T10S R23E 2328 FNL 1727 FEL

BHL Sec 17 T10S R23E 0826 FSL 1808 FEL

43-047-53217 BONANZA 1023-1704BS Sec 17 T10S R23E 2336 FNL 1721 FEL

BHL Sec 17 T10S R23E 0496 FSL 1808 FEL

43-047-53218 BONANZA 1023-17P1BS Sec 17 T10S R23E 2250 FNL 1611 FEL

BHL Sec 17 T10S R23E 1158 FSL 0493 FEL

43-047-53219 BONANZA 1023-17N1CS Sec 17 T10S R23E 2405 FNL 1843 FEL

BHL Sec 17 T10S R23E 0825 FSL 2137 FWL

43-047-53220 BONANZA 1023-17N4BS Sec 17 T10S R23E 2413 FNL 1838 FEL

BHL Sec 17 T10S R23E 0495 FSL 2136 FWL

43-047-53221 BONANZA 1023-17P1CS Sec 17 T10S R23E 2242 FNL 1616 FEL

BHL Sec 17 T10S R23E 0827 FSL 0493 FEL

API #	WELL	NAME			-	LOCAT	ION				
(Proposed PZ Pad 1023-17G	WASATCH-	-MESA VERDE)	)								
43-047-53222	BONANZA	1023-17P4BS					R23E R23E				
<b>Pad 1023-8P</b> 43-047-53223	BONANZA										
43-047-53224	BONANZA						R23E R23E				
							R23E				
43-047-53225	BONANZA						R23E R23E				
43-047-53226	BONANZA						R23E R23E		_		
43-047-53227	BONANZA	1023-17Н1В					R23E R23E				
43-047-53228	BONANZA						R23E R23E				
Pad 1023-7B 43-047-53233	BONANZA	1023-7A1CS					R23E R23E				
43-047-53234	BONANZA	1023-7B1BS					R23E R23E				
43-047-53235	BONANZA	1023-7B1CS					R23E R23E				
43-047-53236	BONANZA	1023-7H1BS					R23E R23E				
43-047-53237	BONANZA						R23E R23E				
<b>Pad 1023-7B3</b> 43-047-53238	BONANZA	1023-7C1BS		Sec	0.7	T10S	R23E	1258	FNI.	2263	FEI.
45 047 55250	DOMMINZM	1025 / CIBB					R23E				
43-047-53239	BONANZA	1023-7C4BS					R23E R23E				
43-047-53240	BONANZA	1023-7C4CS					R23E R23E				
43-047-53241	BONANZA	1023-7F1BS					R23E R23E				
43-047-53242	BONANZA	1023-7G1BS					R23E R23E				

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API #	WELL	NAME	LOCATION							
(Proposed PZ Pad 1023-7B3	WASATCH-	-MESA VERDE	)							
43-047-53243	BONANZA	1023-7G1CS								
Pad 1023-7D 43-047-53245	BONANZA	1023-7D1BS								
43-047-53246	BONANZA	1023-7D1CS								
43-047-53247	BONANZA	1023-7D4CS								
43-047-53248	BONANZA	1023-7E1BS								
43-047-53249	BONANZA	1023-7E1CS								
Pad 1023-7H 43-047-53250	BONANZA	1023-7H4CS								
43-047-53251	BONANZA	1023-7I1BS								
43-047-53252	BONANZA	1023-7I1CS								
43-047-53253	BONANZA	1023-7I4BS								
43-047-53256	BONANZA	1023-7I4CS								
Pad 1023-7K 43-047-53254	BONANZA	1023-7F4CS				T10S T10S				
43-047-53255	BONANZA	1023-7E4BS				T10S T10S				
43-047-53257	BONANZA	1023-7E4CS				T10S T10S				
43-047-53258	BONANZA	1023-7F4BS				T10S T10S				
43-047-53259	BONANZA	1023-7K1BS				T10S T10S				
43-047-53260	BONANZA	1023-7K4BS				T10S T10S				

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API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE) Pad 1023-7M 43-047-53261 BONANZA 1023-7K3AS Sec 07 T10S R23E 1103 FSL 0498 FWL BHL Sec 07 T10S R23E 1654 FSL 1919 FWL 43-047-53262 BONANZA 1023-7L1CS Sec 07 T10S R23E 1100 FSL 0488 FWL BHL Sec 07 T10S R23E 2134 FSL 0829 FWL Sec 07 T10S R23E 1097 FSL 0479 FWL 43-047-53263 BONANZA 1023-7M4BS BHL Sec 07 T10S R23E 0415 FSL 0824 FWL 43-047-53264 BONANZA 1023-7M4CS Sec 07 T10S R23E 1094 FSL 0470 FWL BHL Sec 07 T10S R23E 0088 FSL 0817 FWL Pad 1023-70 43-047-53265 BONANZA 1023-701CS Sec 07 T10S R23E 0081 FSL 2127 FEL BHL Sec 07 T10S R23E 0746 FSL 1818 FEL 43-047-53266 BONANZA 1023-7N4CS Sec 07 T10S R23E 0072 FSL 2145 FEL BHL Sec 07 T10S R23E 0183 FSL 2152 FWL 43-047-53267 BONANZA 1023-702AS Sec 07 T10S R23E 0077 FSL 2136 FEL BHL Sec 07 T10S R23E 1298 FSL 2010 FEL 43-047-53268 BONANZA 1023-7P1BS Sec 07 T10S R23E 0086 FSL 2118 FEL BHL Sec 07 T10S R23E 1242 FSL 0493 FEL 43-047-53269 BONANZA 1023-7P1CS Sec 07 T10S R23E 0095 FSL 2100 FEL BHL Sec 07 T10S R23E 0911 FSL 0494 FEL 43-047-53270 BONANZA 1023-7P4BS Sec 07 T10S R23E 0090 FSL 2109 FEL BHL Sec 07 T10S R23E 0579 FSL 0493 FEL

This office has no objection to permitting the wells at this time.



bcc: File - Ponderosa Unit

Division of Oil Gas and Mining

Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:10-2-12

43-047-53177 43-047-53178 43-047-53179 43-047-53180	BONANZA 1023-17F1BS BONANZA 1023-17F1CS BONANZA 1023-17G1BS BONANZA 1023-17G1CS	Sec 17 Sec 17	T10S R23E	0671 FNL 1665 FEL
43-047-53179 43-047-53180	BONANZA 1023-17G1BS		T10S R23E	OCCE EN! 4CEC EE!
43-047-53180	BONANZA 1023-17G1BS			0665 FNL 1656 FEL
		Sec 17	T10S R23E	0654 FNL 1640 FEL
42 047 52101		Sec 17	T10S R23E	0649 FNL 1631 FEL
43-047-53181	BONANZA 1023-17H4BS	Sec 17	T10S R23E	0644 FNL 1623 FEL
43-047-53182	BONANZA 1023-17C1CS	Sec 17	T10S R23E	0707 FNL 2230 FWL
43-047-53183	BONANZA 1023-17D1CS	Sec 17	T10S R23E	0715 FNL 2235 FWL
43-047-53184	BONANZA 1023-17D4BS	Sec 17	T10S R23E	0723 FNL 2241 FWL
43-047-53185	BONANZA 1023-17D4DS	Sec 17	T10S R23E	0732 FNL 2247 FWL
43-047-53186	BONANZA 1023-17E1DS	Sec 17	T10S R23E	0740 FNL 2253 FWL
43-047-53187	BONANZA 1023-17E4AS	Sec 17	T10S R23E	0748 FNL 2259 FWL
43-047-53188	BONANZA 1023-17J1CS	Sec 17	T10S R23E	2294 FNL 1749 FEL
43-047-53189	BONANZA 1023-17E4DS	Sec 17	T10S R23E	2363 FNL 1871 FEL
43-047-53190	BONANZA 1023-17F4BS	Sec 17	T10S R23E	2355 FNL 1877 FEL
43-047-53191	BONANZA 1023-17F4CS	Sec 17	T10S R23E	2372 FNL 1865 FEL
43-047-53192	BONANZA 1023-17G4BS	Sec 17	T10S R23E	2269 FNL 1766 FEL
43-047-53194	BONANZA 1023-17G4CS	Sec 17	T10S R23E	2278 FNL 1760 FEL
43-047-53195	BONANZA 1023-17H4CS	Sec 17	T10S R23E	2200 FNL 1644 FEL
43-047-53196	BONANZA 1023-17I1BS	Sec 17	T10S R23E	2208 FNL 1639 FEL
43-047-53197	BONANZA 1023-17I1CS	Sec 17	T10S R23E	2217 FNL 1633 FEL
43-047-53198	BONANZA 1023-17I4BS	Sec 17	T10S R23E	2233 FNL 1622 FEL
43-047-53199	BONANZA 1023-17I4CS	Sec 17	T10S R23E	2258 FNL 1605 FEL
43-047-53200	BONANZA 1023-17J1BS	Sec 17	T10S R23E	2286 FNL 1755 FEL
43-047-53201	BONANZA 1023-17J4BS	Sec 17	T10S R23E	2303 FNL 1744 FEL
43-047-53202	BONANZA 1023-17J4CS	Sec 17	T10S R23E	2311 FNL 1738 FEL
43-047-53203	BONANZA 1023-17K1BS	Sec 17	T10S R23E	2433 FNL 1993 FEL
43-047-53204	BONANZA 1023-17L1AS	Sec 17	T10S R23E	2380 FNL 1860 FEL
43-047-53205	BONANZA 1023-17L1CS	Sec 17	T10S R23E	2424 FNL 1998 FEL
43-047-53206	BONANZA 1023-17L4BS	Sec 17	T10S R23E	2441 FNL 1987 FEL
43-047-53207 43-047-53208	BONANZA 1023-17L4CS	Sec 17	T10S R23E	2449 FNL 1982 FEL
43-047-53208	BONANZA 1023-17K1CS	Sec 17	T10S R23E	2458 FNL 1976 FEL 2483 FNL 1959 FEL
43-047-53209	BONANZA 1023-17K4BS BONANZA 1023-17K4CS	Sec 17 Sec 17	T10S R23E T10S R23E	2388 FNL 1854 FEL
43-047-53210	BONANZA 1023-17K4C3	Sec 17	T103 R23E	2466 FNL 1971 FEL
43-047-53212	BONANZA 1023-17M1CS	Sec 17	T105 R23E	2474 FNL 1965 FEL
43-047-53213	BONANZA 1023-17M4BS	Sec 17	T105 R23E	2491 FNL 1954 FEL
43-047-53214	BONANZA 1023-17N1BS	Sec 17	T105 R23E	2397 FNL 1849 FEL
43-047-53215	BONANZA 1023-1701BS	Sec 17	T10S R23E	2319 FNL 1732 FEL
43-047-53216	BONANZA 1023-1701CS	Sec 17	T10S R23E	2328 FNL 1727 FEL
43-047-53217	BONANZA 1023-1704BS	Sec 17	T10S R23E	2336 FNL 1721 FEL
43-047-53218	BONANZA 1023-17P1BS	Sec 17	T10S R23E	2250 FNL 1611 FEL
43-047-53219	BONANZA 1023-17N1CS	Sec 17	T10S R23E	2405 FNL 1843 FEL
43-047-53220	BONANZA 1023-17N4BS	Sec 17	T10S R23E	2413 FNL 1838 FEL
43-047-53221	BONANZA 1023-17P1CS	Sec 17	T10S R23E	2242 FNL 1616 FEL
43-047-53222	BONANZA 1023-17P4BS	Sec 17	T10S R23E	2225 FNL 1627 FEL
43-047-53223	BONANZA 1023-17A1CS	Sec 08	T10S R23E	0435 FSL 0692 FEL

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API Number	Well Name		Surface Location			
43-047-53224	BONANZA 1023-17A4BS	Sec 08	T10S R23E	0426 FSL 0696 FEL		
43-047-53225	BONANZA 1023-17A4CS	Sec 08	T10S R23E	0417 FSL 0700 FEL		
43-047-53226	BONANZA 1023-17B1CS	Sec 08	T10S R23E	0390 FSL 0713 FEL		
43-047-53227	BONANZA 1023-17H1BS	Sec 08	T10S R23E	0408 FSL 0705 FEL		
43-047-53228	BONANZA 1023-17H2CS	Sec 08	T10S R23E	0399 FSL 0709 FEL		
43-047-53233	BONANZA 1023-7A1CS	Sec 07	T10S R23E	0724 FNL 1691 FEL		
43-047-53234	BONANZA 1023-7B1BS	Sec 07	T10S R23E	0735 FNL 1708 FEL		
43-047-53235	BONANZA 1023-7B1CS	Sec 07	T10S R23E	0740 FNL 1717 FEL		
43-047-53236	BONANZA 1023-7H1BS	Sec 07	T10S R23E	0729 FNL 1699 FEL		
43-047-53237	BONANZA 1023-7H1CS	Sec 07	T10S R23E	0745 FNL 1725 FEL		
43-047-53238	BONANZA 1023-7C1BS	Sec 07	T10S R23E	1258 FNL 2263 FEL		
43-047-53239	BONANZA 1023-7C4BS	Sec 07	T10S R23E	1260 FNL 2273 FEL		
43-047-53240	BONANZA 1023-7C4CS	Sec 07	T10S R23E	1261 FNL 2283 FEL		
43-047-53241	BONANZA 1023-7F1BS	Sec 07	T10S R23E	1263 FNL 2293 FEL		
43-047-53242	BONANZA 1023-7G1BS	Sec 07	T10S R23E	1255 FNL 2244 FEL		
43-047-53243	BONANZA 1023-7G1CS	Sec 07	T10S R23E	1257 FNL 2254 FEL		
43-047-53245	BONANZA 1023-7D1BS	Sec 07	T10S R23E	0589 FNL 0635 FWL		
43-047-53246	BONANZA 1023-7D1CS	Sec 07	T10S R23E	0597 FNL 0629 FWL		
43-047-53247	BONANZA 1023-7D4CS	Sec 07	T10S R23E	0605 FNL 0624 FWL		
43-047-53248	BONANZA 1023-7E1BS	Sec 07	T10S R23E	0614 FNL 0618 FWL		
43-047-53249	BONANZA 1023-7E1CS	Sec 07	T10S R23E	0622 FNL 0612 FWL		
43-047-53250	BONANZA 1023-7H4CS	Sec 07	T10S R23E	2205 FNL 0374 FEL		
43-047-53251	BONANZA 1023-7I1BS	Sec 07	T10S R23E	2210 FNL 0365 FEL		
43-047-53252	BONANZA 1023-7I1CS	Sec 07	T10S R23E	2221 FNL 0348 FEL		
43-047-53253	BONANZA 1023-7I4BS	Sec 07	T10S R23E	2226 FNL 0339 FEL		
43-047-53254	BONANZA 1023-7F4CS	Sec 07	T10S R23E	2297 FSL 1754 FWL		
43-047-53255	BONANZA 1023-7E4BS	Sec 07	T10S R23E	2288 FSL 1736 FWL		
43-047-53256	BONANZA 1023-7I4CS	Sec 07	T10S R23E	2231 FNL 0330 FEL		
43-047-53257	BONANZA 1023-7E4CS	Sec 07	T10S R23E	2283 FSL 1727 FWL		
43-047-53258	BONANZA 1023-7F4BS	Sec 07	T10S R23E	2292 FSL 1745 FWL		
43-047-53259	BONANZA 1023-7K1BS	Sec 07	T10S R23E	2305 FSL 1771 FWL		
43-047-53260	BONANZA 1023-7K4BS	Sec 07	T10S R23E	2301 FSL 1762 FWL		
43-047-53261	BONANZA 1023-7K3AS	Sec 07	T10S R23E	1103 FSL 0498 FWL		
43-047-53262	BONANZA 1023-7L1CS	Sec 07	T10S R23E	1100 FSL 0488 FWL		
43-047-53263	BONANZA 1023-7M4BS	Sec 07	T10S R23E	1097 FSL 0479 FWL		
43-047-53264	BONANZA 1023-7M4CS	Sec 07	T10S R23E	1094 FSL 0470 FWL		
43-047-53265	BONANZA 1023-701CS	Sec 07	T10S R23E	0081 FSL 2127 FEL		
43-047-53266	BONANZA 1023-7N4CS	Sec 07	T10S R23E	0072 FSL 2145 FEL		
43-047-53267	BONANZA 1023-702AS	Sec 07	T10S R23E	0077 FSL 2136 FEL		
43-047-53268	BONANZA 1023-7P1BS	Sec 07	T10S R23E	0086 FSL 2118 FEL		
43-047-53269	BONANZA 1023-7P1CS	Sec 07	T10S R23E	0095 FSL 2100 FEL		
43-047-53270	BONANZA 1023-7P4BS	Sec 07	T10S R23E	0090 FSL 2109 FEL		
Mara Da 1						
New Pad	2.1					
Located on Previ	ous Pad					

2 of 2 10/2/2012

RECEIVED: October 02, 2012

API Well Number: 43047532460000

#### **WORKSHEET** APPLICATION FOR PERMIT TO DRILL

<b>APD RECEIVED:</b> 10/1/2012	API NO. ASSIGNED: 43047532460000
711 5 1120211251 107 172012	711 1 11 01 71 00 10 00 10 00 00 00 00 00 00 00 00 00

WELL NAME: BONANZA 1023-7D1CS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995) PHONE NUMBER: 720 929-6086

**CONTACT:** Gina Becker

PROPOSED LOCATION: NWNW 07 100S 230E **Permit Tech Review:** 

> SURFACE: 0597 FNL 0629 FWL Engineering Review:

> BOTTOM: 0579 FNL 0823 FWL Geology Review:

**COUNTY: UINTAH** 

**LATITUDE**: 39.96905 LONGITUDE: -109.37669 **UTM SURF EASTINGS: 638631.00** NORTHINGS: 4425584.00

FIELD NAME: NATURAL BUTTES LEASE TYPE: 1 - Federal

**LEASE NUMBER: UTU38420** PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 1 - Federal **COALBED METHANE: NO** 

#### **RECEIVED AND/OR REVIEWED: LOCATION AND SITING:** ✓ PLAT R649-2-3. Unit: PONDEROSA Bond: FEDERAL - WYB000291

**Potash** R649-3-2. General

Oil Shale 190-5

Oil Shale 190-3 R649-3-3. Exception

**Drilling Unit** Oil Shale 190-13

Board Cause No: Cause 179-17 Water Permit: 43-8496

Effective Date: 5/9/2012 **RDCC Review:** 

Siting: Suspends General Siting Fee Surface Agreement

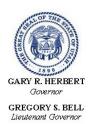
✓ Intent to Commingle ■ R649-3-11. Directional Drill

**Commingling Approved** 

Comments: Presite Completed

Stipulations:

3 - Commingling - ddoucet4 - Federal Approval - dmason15 - Directional - dmason



## State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

#### Permit To Drill

\*\*\*\*\*\*

Well Name: BONANZA 1023-7D1CS

**API Well Number:** 43047532460000

Lease Number: UTU38420 Surface Owner: FEDERAL Approval Date: 10/29/2012

#### Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

#### Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 179-17. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

#### **Duration:**

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

#### **Commingle:**

In accordance with Board Cause No. 179-17, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

#### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### **Conditions of Approval:**

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

#### **Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at http://oilgas.ogm.utah.gov

#### Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
  - Requests to Change Plans (Form 9) due prior to implementation
  - Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
  - Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

For John Rogers Associate Director, Oil & Gas

**UNITED STATES** DEPARTMENT OF THE INTERIOR MAR 2 1 2012 BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0136 Expires July 31, 2010

DOMENTO OF EARLY	VIAIVAGEIVIEN		UTU38420		
APPLICATION FOR PERMIT	TO DRILL OR/REB	WERnal Utah	6. If Indian, Allottee or Tr	ibe Name	
1a. Type of Work: ☑ DRILL ☐ REENTER			7. If Unit or CA Agreemer Ponderosa UTU8		
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Ot		Zone Multiple Zone	Lease Name and Well N BONANZA 1023-7D10	lo. CS	
KERR-MCGEE OIL & GAS ONSHORMEail: GINA.B	GINA T BECKER ECKER@ANADARKO.COM	1	9. API Well No. 53.7	340	
3a. Address P.O. BOX 173779 DENVER, CO 80202-3779	3b. Phone No. (include Ph: 720-929-6086 Fx: 720-929-7086	area code)	10. Field and Pool, or Expl BONANZA	oratory	
4. Location of Well (Report location clearly and in accorded	nce with any State requirer	nents.*)	11. Sec., T., R., M., or Blk	. and Survey or Area	
At surface NWNW Lot 1 597FNL 629	FWL 39.969020 N Lat	, 109.376598 W Lon	Sec 7 T10S R23E N	/ler SLB	
At proposed prod. zone NWNW Lot 1 579FNL 823		, 109.375907 W Lon			
14. Distance in miles and direction from nearest town or post APPROXIMATELY 48 MILES SOUTHEAST OF	office* VERNAL, UTAH		12. County or Parish UINTAH	13. State UT	
<ol> <li>Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)</li> <li>579</li> </ol>	16. No. of Acres in Leas 637.00		17. Spacing Unit dedicated	to this well	
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth		20. BLM/BIA Bond No. on file		
259	8456 MD 8448 TVD		WYB000291		
21. Elevations (Show whether DF, KB, RT, GL, etc. 5192 GL	22. Approximate date work will start 09/08/2012		23. Estimated duration 60-90 DAYS		
	24. Attacl	nments			
The following, completed in accordance with the requirements o	f Onshore Oil and Gas Orde	er No. 1, shall be attached to t	nis form:		
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest Systems Supposed Supposed by Supposed Sup</li></ol>	em Lands, the	<ul> <li>Bond to cover the operation Item 20 above).</li> <li>Operator certification</li> <li>Such other site specific infrauthorized officer.</li> </ul>		,	
25. Signature (Electronic Submission)	Name (Printed/Typed) GINA T BECKER	Ph: 720-929-6086		Date 03/08/2012	
Title REGULATORY ANALYST II					
Approved by (Signature)	Name (Printed/Typed) Jerry Kenczka OCT 2.5				
Title Assistant Field Manager	Office VERNA	L FIELD OFFICE			
Application approval does not warrant or certify the applicant ho		those rights in the subject lea	se which would entitle the ap	plicant to conduct	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, n States any false, fictitious or fraudulent statements or representati	nake it a crime for any perso ons as to any matter within	on knowingly and willfully to its jurisdiction.	make to any department	Great Dited	

Additional Operator Remarks (see next page)

Electronic Submission #132536 verified by the BLM Well Information Sy For KERR-MCGEE OIL & GAS ONSHORE, sent to the Vernal

OF O'L, GAS & MINNING

NOV 0 6 2012

NOTICE OF APPROVAL

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

1115-11/29/10

1CVCMMS1 AG



#### UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE

VERNAL FIELD OFFICE
VERNAL, UT 84078

(435) 781-4400



### **CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company: Well No:

Kerr-McGee Oil & Gas Onshore, LP

Bonanza 1023-7D1CS

170 South 500 East

API No: 43-047-53246

Location:

NWNW, Sec. 7, T10S, R23E

Lease No: UTU-38420

Agreement: Ponderosa Unit

**OFFICE NUMBER:** 

(435) 781-4400

**OFFICE FAX NUMBER:** 

(435) 781-3420

# A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

#### **NOTIFICATION REQUIREMENTS**

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to:  blm_ut_vn_opreport@blm.gov
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

Page 2 of 7 Well: BONANZA 1023-7D1CS 10/4/2012

#### SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

- All new and replacement internal combustion gas field engines of less than or equal to 300 designrated horsepower must not emit more than 2 gms of NO<sub>x</sub> per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO<sub>x</sub> per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop
  work and contact the Authorized Officer (AO). A determination will be made by the AO as to what
  mitigation may be necessary for the discovered paleontologic material before construction can
  continue.
- The following would be used as standard operating procedures: Green completion or controlled VOC emissions methods with 90% efficiency for Oil or Gas Atmospheric Storage Tanks, VOC Venting controls or flaring, Glycol Dehydration and Amine Unites, Well Completion, Re-Completion, Venting, and Planned Blowdown Emissions.
- All reclamation will comply with the Green River Reclamation Guidelines
- All vehicles and equipment shall be cleaned either through power-washing, or other approved method, if the vehicles or equipment were previously operated outside the Uinta Basin, to prevent weed seed introduction.
- All disturbance areas shall be monitored for noxious weeds annually, for a minimum of three growing seasons following completion of project or until desirable vegetation is established
- Noxious and invasive weeds will be controlled throughout the area of project disturbance.
- Noxious weeds will be inventoried and reported to BLM in the annual reclamation report. Where an
  integrated pest management program is applicable, coordination has been undertaken with the
  state and local management program (if existing). A copy of the pest management plan will be
  submitted for each project.
- A pesticide use permit (PUP) will be obtained for the project, if applicable.
- The best method to avoid entrainment is to pump from an off-channel location one that does not connect to the river during high spring flows. An infiltration gallery constructed in a BLM and Service approved location is best.
- If the pump head is located in the river channel where larval fish are known to occur, the following measures apply:
  - a. Do not situate the pump in a low-flow or no-flow area as these habitats tend to concentrate larval fishes;
  - b. Limit the amount of pumping, to the greatest extent possible, during that period of the year when larval fish may be present (April 1 to August 31); and

Page 3 of 7 Well: BONANZA 1023-7D1CS 10/4/2012

- c. Limit the amount of pumping, to the greatest extent possible, during the pre-dawn hours as larval drift studies indicate that this is a period of greatest daily activity.
- Screen all pump intakes with 3/32" mesh material.
- Approach velocities for intake structures will follow the National Marine Fisheries Service's document "Fish Screening Criteria for Anadromous Salmonids". For projects with an in-stream intake that operate in stream reaches where larval fish may be present, the approach velocity will not exceed 0.33 feet per second (ft/s).
- Report any fish impinged on the intake screen to the Service (801.975.3330) and the Utah Division of Wildlife Resources:

Northeastern Region 318 N Vernal Ave, Vernal, UT 84078 Phone: (435) 781-9453

- The following measures are required by and have been committed to by Anadarko within the Programmatic Section 7 consultation for the Natural Buttes Unit and Bonanza Area Natural Gas Development for all areas where surface disturbing activities cannot be avoided by the required 300 foot buffer from identified Uinta Basin hookless cactus individuals
  - 1. Silt fencing will be used to protect populations within 300 feet of surface disturbing activities that are downslope or downwind of the surface disturbance
  - 2. A qualified botanist will be on site to monitor the surface-disturbing activities.
  - 3. Dust abatement will occur and will be done using only water.
  - 4. All cacti within 300 feet will be flagged immediately prior to surface-disturbing activities are completed.
  - 5. Pipelines will be located to the far side of the ROW to maximize distance from cacti.
  - 6. Project personnel associated with construction activities would be instructed to drive a speed limit of 15 miles per hour on unpaved roads and to remain on the existing roads and approved ROW at all times.
- Discovery Stipulation: Reinitiation of section 7 consultation with the USFWS will be sought immediately if any loss of plants or occupied habitat for Pariette cactus or Uinta Basin hookless cactus is anticipated as a result of project activities.

#### DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

#### SITE SPECIFIC DOWNHOLE COAs:

- Gamma ray Log shall be run from Total Depth to Surface.
- Cement for the production casing must be brought 200' above the surface casing shoe.
- A CBL will be run from TD to TOC in the production casing.

#### Variances Granted:

#### Air Drilling

- 1. Properly lubricated and maintained rotating head. Variance granted to use a properly maintained and lubricated diverter bowl in place of a rotating head.
- 2. Blooie line discharge 100' from the well bore. Variance granted for blooie line discharge to be 45' from the well bore.
- 3. Compressors located in the opposite direction from the blooie line a minimum of 100' from the well bore. Variance granted for truck/trailer mounted air compressors located 40'from the well bore.
- 4. In lieu of mud products on location, Kerr McGee will fill the reserve pit with water for the kill medium and will utilize a skid pump near the reserve pit to supply the water to the well bore if necessary.
- 5. Automatic igniter. Variance granted for igniter due to there being no productive formations encountered while air drilling.
- 6. FIT Test. Variance granted due to well-known geology and the problems that can occur with the FIT test.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

#### DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a

Page 5 of 7 Well: BONANZA 1023-7D1CS 10/4/2012

test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be reported in the driller's log.

- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is
  encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal
  Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM,
   Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well in LAS format to BLM\_UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

Page 6 of 7 Well: BONANZA 1023-7D1CS 10/4/2012

#### **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- Should the well be successfully completed for production, the BLM Vernal Field office must be
  notified when it is placed in a producing status. Such notification will be by written communication
  and must be received in this office by not later than the fifth business day following the date on
  which the well is placed on production. The notification shall provide, as a minimum, the following
  informational items:
  - o Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be
  reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported
  verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will
  be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of
  Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs.

Page 7 of 7 Well: BONANZA 1023-7D1CS 10/4/2012

core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office
  Petroleum Engineers will be provided with a date and time for the initial meter calibration and all
  future meter proving schedules. A copy of the meter calibration reports shall be submitted to the
  BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid
  hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall
  be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to
  the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first.
  All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All
  product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in
  accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering
  lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a
  suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be
  obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
  equipment shall be removed from a well to be placed in a suspended status without prior approval
  of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior
  approval of the BLM Vernal Field Office shall be obtained and notification given before resumption
  of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office
  Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in
  order that a representative may witness plugging operations. If a well is suspended or abandoned,
  all pits must be fenced immediately until they are backfilled. The "Subsequent Report of
  Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of
  the well bore, showing location of plugs, amount of cement in each, and amount of casing left in
  hole, and the current status of the surface restoration.

Sundry Number: 37806 API Well Number: 43047532460000

	STATE OF UTAH		FORM 9
ı	DEPARTMENT OF NATURAL RESOUR DIVISION OF OIL, GAS, AND MI		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU38420
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:		
Do not use this form for procurrent bottom-hole depth, IFOR PERMIT TO DRILL form	7.UNIT or CA AGREEMENT NAME: PONDEROSA		
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: BONANZA 1023-7D1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.		9. API NUMBER: 43047532460000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	h Street, Suite 600, Denver, CO, 802	<b>PHONE NUMBER:</b> 17 3779 720 929-	9. FIELD and POOL or WILDCAT: 5NIATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0597 FNL 0629 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH	<b>HIP, RANGE, MERIDIAN:</b> 07 Township: 10.0S Range: 23.0E Me	eridian: S	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDICA	ATE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
Approximate date work will start:	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
,	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT  Date of Spud:			
5/8/2013	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
DRILLING REPORT	L TUBING REPAIR	☐ VENT OR FLARE ☐	☐ WATER DISPOSAL ☐
Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
	WILDCAT WELL DETERMINATION	OTHER	OTHER:
Spud well 05/08/2 conductor hole to cement with 28 sa	COMPLETED OPERATIONS. Clearly show 2013 @ 10:00. MIRU Triple 0 40', run 14", 36.7# sched acks ready mix. Anticipated rface casing cement 06/28	A Bucket Rig, drill 20" ule 10 conductor pipe, surface spud date and	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY May 10, 2013
NAME (PLEASE PRINT) Doreen Green	<b>PHONE NUM</b> 435 781-9758	BER TITLE Regulatory Analyst II	
SIGNATURE		DATE	
N/A		5/10/2013	

Sundry Number: 39514 API Well Number: 43047532460000

	STATE OF UTAH			FORM 9
ı	DEPARTMENT OF NATURAL RESOURC DIVISION OF OIL, GAS, AND MIN			5.LEASE DESIGNATION AND SERIAL NUMBER: UTU38420
SUNDR	Y NOTICES AND REPORTS	ON W	ELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for procurrent bottom-hole depth, IFOR PERMIT TO DRILL form	7.UNIT or CA AGREEMENT NAME: PONDEROSA			
1. TYPE OF WELL Gas Well				8. WELL NAME and NUMBER: BONANZA 1023-7D1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.			9. API NUMBER: 43047532460000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th	n Street, Suite 600, Denver, CO, 80217		NUMBER: 720 929-6	9. FIELD and POOL or WILDCAT: 5NIATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0597 FNL 0629 FWL				COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: NWNW Section:	IIP, RANGE, MERIDIAN: 07 Township: 10.0S Range: 23.0E Meri	idian: S		STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDICAT	TE NAT	URE OF NOTICE, REPOR	T, OR OTHER DATA
TYPE OF SUBMISSION			TYPE OF ACTION	
	CHANGE TO PREVIOUS PLANS CHANGE WELL STATUS DEEPEN OPERATOR CHANGE PRODUCTION START OR RESUME REPERFORATE CURRENT FORMATION TUBING REPAIR WATER SHUTOFF WILDCAT WELL DETERMINATION  COMPLETED OPERATIONS. Clearly show a Drilled to 2,330 ft. in June 20	CHAN COMI FRACC PLUG RECL SIDET VENT SITA OTHE	ER CASING  MINGLE PRODUCING FORMATIONS  CTURE TREAT  G AND ABANDON  LAMATION OF WELL SITE  TRACK TO REPAIR WELL  F OR FLARE  A STATUS EXTENSION  ER  Ment details including dates, d	CASING REPAIR  CHANGE WELL NAME  CONVERT WELL TYPE  NEW CONSTRUCTION  PLUG BACK  RECOMPLETE DIFFERENT FORMATION  TEMPORARY ABANDON  WATER DISPOSAL  APD EXTENSION  OTHER:  Pepths, volumes, etc.  Accepted by the Utah Division of Oil, Gas and Mining  FOR RECORD ONLY  July 10, 2013
NAME (PLEASE PRINT) Teena Paulo	<b>PHONE NUMB</b> 720 929-6236		ITLE Staff Regulatory Specialist	
SIGNATURE N/A			<b>ATE</b> 7/1/2013	

RECEIVED: Jul. 01, 2013

Sundry Number: 40747 API Well Number: 43047532460000

	FORM 9				
ı	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU38420				
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:				
	posals to drill new wells, significantly de reenter plugged wells, or to drill horizonta n for such proposals.		7.UNIT or CA AGREEMENT NAME: PONDEROSA		
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: BONANZA 1023-7D1CS		
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	<b>9. API NUMBER:</b> 43047532460000				
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th	P n Street, Suite 600, Denver, CO, 80217 3	<b>HONE NUMBER:</b> 779 720 929-6	9. FIELD and POOL or WILDCAT: 5NIATUERAL BUTTES		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0597 FNL 0629 FWL			COUNTY: UINTAH		
QTR/QTR, SECTION, TOWNSH	tip, RANGE, MERIDIAN: 07 Township: 10.0S Range: 23.0E Meridi	an: S	STATE: UTAH		
11. CHECI	K APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPOR	T, OR OTHER DATA		
TYPE OF SUBMISSION		TYPE OF ACTION			
	ACIDIZE	ALTER CASING	CASING REPAIR		
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME		
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE		
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION		
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK		
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION		
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON		
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL		
DRILLING REPORT     Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION		
8/5/2013	WILDCAT WELL DETERMINATION	OTHER	OTHER:		
	COMPLETED OPERATIONS. Clearly show all r the month of July 2013. Wel	pertinent details including dates, d	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY August 07, 2013		
NAME (PLEASE PRINT) Teena Paulo	<b>PHONE NUMBER</b> 720 929-6236	TITLE Staff Regulatory Specialist			
SIGNATURE		DATE 8/5/2012			
N/A		8/5/2013			

# State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# SST 8 Submitted By  DALTON KING Phone Number 435- 828-0987  Well Name/Number BONANZA 1023- 7D1CS  Qtr/Qtr NW/NW Section 7 Township 710S Range 23E  Lease Serial Number UTU-38420  API Number 4304753246
741   Namber 150 17 552 40
<u>Casing</u> – Time casing run starts, not cementing times.
Production Casing Other
Date/Time AM PM
BOPE  Initial BOPE test at surface casing point  Other  RECEIVED  AUG 1 8 2013  DIV. OF OIL, GAS & MINING
Date/Time <u>8/19/2013</u> <u>06:00</u> AM ⊠ PM □
Rig Move Location To:
Date/Time AM
Remarks <u>TIME IS ESTIMATED</u>

# State of Utah - Notification Form

DALTON KING Phone Number 435- 828-0987
Well Name/Number BONANZA 1023- 7D1CS
Qtr/Qtr NW/NW Section 7 Township 710S Range 23E
Lease Serial Number <u>UTU-38420</u>
API Number4304753246
<u>Casing</u> – Time casing run starts, not cementing times.
Production Casing Other
Date/Time <u>8/21/20123</u> <u>23:00</u> AM ☐ PM ⊠
BOPE
Initial BOPE test at surface casing point Other
Date/Time AM PM
RECEIVED
Rig Move
Location To: BONANZA 1023-7D1BS OIV. OF OIL, GAS & MINING
Date/Time <u>8/22/2013</u> <u>11:00</u> AM $\boxtimes$ PM $\square$
Remarks TIME IS ESTIMATED

Sundry Number: 42020 API Well Number: 43047532460000

	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES		FORM 9				
ι	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU38420						
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:						
	posals to drill new wells, significantly de reenter plugged wells, or to drill horizonta n for such proposals.		7.UNIT or CA AGREEMENT NAME: PONDEROSA				
1. TYPE OF WELL Gas Well	1. TYPE OF WELL						
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.		9. API NUMBER: 43047532460000				
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th	P n Street, Suite 600, Denver, CO, 80217 3	<b>HONE NUMBER:</b> 779 720 929-6	9. FIELD and POOL or WILDCAT: 65NATURAL BUTTES				
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0597 FNL 0629 FWL			COUNTY: UINTAH				
QTR/QTR, SECTION, TOWNSH	tip, RANGE, MERIDIAN: 07 Township: 10.0S Range: 23.0E Meridia	an: S	STATE: UTAH				
11. CHECI	K APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPOR	RT, OR OTHER DATA				
TYPE OF SUBMISSION		TYPE OF ACTION					
	ACIDIZE	ALTER CASING	CASING REPAIR				
NOTICE OF INTENT		7					
Approximate date work will start:	L CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME				
SUBSEQUENT REPORT	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE				
Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION				
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK				
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION				
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON				
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL				
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION				
9/3/2013		1	OTHER.				
	WILDCAT WELL DETERMINATION		OTHER:				
l .	completed operations. Clearly show all rilled to 8,490 ft. in August 20		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY October 01, 2013				
NAME (PLEASE PRINT)	PHONE NUMBER	R  TITLE					
Matthew P Wold	720 929-6993	Regulatory Analyst I					
SIGNATURE N/A		<b>DATE</b> 9/3/2013					

Sundry Number: 43360 API Well Number: 43047532460000

	STATE OF UTAH		FORM 9		
I	DEPARTMENT OF NATURAL RESOUF DIVISION OF OIL, GAS, AND M		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU38420		
SUNDR	Y NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:		
	posals to drill new wells, significantly reenter plugged wells, or to drill horiz n for such proposals.		7.UNIT or CA AGREEMENT NAME: PONDEROSA		
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: BONANZA 1023-7D1CS		
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.		9. API NUMBER: 43047532460000		
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	n Street, Suite 600, Denver, CO, 802	<b>PHONE NUMBER:</b> 17 3779 720 929-	9. FIELD and POOL or WILDCAT: 65NATURAL BUTTES		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0597 FNL 0629 FWL			COUNTY: UINTAH		
QTR/QTR, SECTION, TOWNSH	tip, range, Meridian: 07 Township: 10.0S Range: 23.0E Me	eridian: S	STATE: UTAH		
11. CHECI	K APPROPRIATE BOXES TO INDICA	ATE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA		
TYPE OF SUBMISSION		TYPE OF ACTION			
	ACIDIZE	ALTER CASING	CASING REPAIR		
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME		
Approximate date work will start:	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE		
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION		
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK		
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION		
SPUD REPORT Date of Spud:					
	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	LI TEMPORARY ABANDON		
✓ DRILLING REPORT	L TUBING REPAIR		WATER DISPOSAL		
Report Date: 10/4/2013	WATER SHUTOFF	APD EXTENSION			
10/4/2010	WILDCAT WELL DETERMINATION	OTHER	OTHER:		
Started	COMPLETED OPERATIONS. Clearly show completing the well. Well T	D at 8,490 ft.	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY October 08, 2013		
NAME (PLEASE PRINT) Teena Paulo	<b>PHONE NUM</b> 720 929-6236	BER TITLE Staff Regulatory Specialist			
SIGNATURE N/A					

Sundry Number: 44331 API Well Number: 43047532460000

	STATE OF UTAH		FORM 9				
ı	DEPARTMENT OF NATURAL RESOUR DIVISION OF OIL, GAS, AND MI		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU38420				
SUNDR	Y NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:				
Do not use this form for procurrent bottom-hole depth, FOR PERMIT TO DRILL form	7.UNIT or CA AGREEMENT NAME: PONDEROSA						
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: BONANZA 1023-7D1CS				
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	KERR-MCGEE OIL & GAS ONSHORE, L.P.						
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	n Street, Suite 600, Denver, CO, 8021	<b>PHONE NUMBER:</b> 17 3779 720 929-0	9. FIELD and POOL or WILDCAT: 65NATURAL BUTTES				
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0597 FNL 0629 FWL			COUNTY: UINTAH				
QTR/QTR, SECTION, TOWNSH	tip, range, meridian: 07 Township: 10.0S Range: 23.0E Me	ridian: S	STATE: UTAH				
11. CHECI	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA				
TYPE OF SUBMISSION		TYPE OF ACTION					
	ACIDIZE	ALTER CASING	CASING REPAIR				
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME				
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE				
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION				
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK				
SPUD REPORT	✓ PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION				
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON				
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL				
✓ DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION				
10/30/2013							
	WILDCAT WELL DETERMINATION	OTHER	OTHER:				
THE SUBJECT WELL	COMPLETED OPERATIONS. Clearly show . WAS PLACED ON PRODUC WELL HISTORY WILL BE SUB COMPLETION REPORT.	TION ON 10/30/2013. THE MITTED WITH THE WELL	- · · · · · · · · · · · · · · · · · · ·				
NAME (PLEASE PRINT) Teena Paulo	<b>PHONE NUM</b> 720 929-6236	BER TITLE Staff Regulatory Specialist					
SIGNATURE N/A							

API Well Number: 43047532460000

Form 3160-4 FORM APPROVED **UNITED STATES** (August 2007) DEPARTMENT OF THE INTERIOR OMB No. 1004-0137 Expires: July 31, 2010 BUREAU OF LAND MANAGEMENT Lease Serial No. UTU38420 WELL COMPLETION OR RECOMPLETION REPORT AND LOG 1a. Type of Well Oil Well **⊠** Gas Well 6. If Indian, Allottee or Tribe Name □ Dry □ Other b. Type of Completion New Well ■ Work Over □ Deepen □ Plug Back □ Diff. Resvr. Unit or CA Agreement Name and No. Other UTU88209X 2. Name of Operator Contact: KAY KELL KERR-MCGEE OIL AND GAS ONSH@RMEail: kay.kelly@anadarko.com Lease Name and Well No. BONANZA 1023-7D1CS Contact: KAY KELLY P.O. BOX 173779 3a. Phone No. (include area code) 9. API Well No. DENVER, CO 82017 Ph: 720-929-6000 43-047-53246 10. Field and Pool, or Exploratory 4. Location of Well (Report location clearly and in accordance with Federal requirements)\* NATURAL BUTTES NWNW 597FNL 629FWL 39.969020 N Lat, 109.376598 W Lon At surface 11. Sec., T., R., M., or Block and Survey or Area Sec 7 T10S R23E Mer SLB At top prod interval reported below NWNW 562FNL 820FWL 12. County or Parish State UINTÁH NWNW 584FNL 836FWL UT 14. Date Spudded 05/08/2013 15. Date T.D. Reached 16. Date Completed 17. Elevations (DF, KB, RT, GL)\* 08/21/2013 □ D & A Ready to Prod. 5216 KB 10/30/2013 18. Total Depth: MD 8490 19. Plug Back T.D.: MD 8419 20. Depth Bridge Plug Set: MD TVD 8480 TVD 8409 TVD Type Electric & Other Mechanical Logs Run (Submit copy of each) CBL/GR/CCL/TEMP Was well cored? 22. **⊠** No Yes (Submit analysis) Was DST run? ▼ No Yes (Submit analysis) Yes (Submit analysis) Directional Survey?  $\square$  No 23. Casing and Liner Record (Report all strings set in well) No. of Sks. & Bottom Stage Cementer Slurry Vol. Hole Size Size/Grade Wt. (#/ft.) Cement Top\* Amount Pulled (MD) (MD) Depth Type of Cement (BBL) 20.000 14.000 STL 36.7 0 28 11.000 8.625 J-55 28.0 24 2324 700 1420 750 7.875 4.500 I-80 8466 11.6 24 24. Tubing Record Size Depth Set (MD) Packer Depth (MD) Size Depth Set (MD) Packer Depth (MD) Size Depth Set (MD) Packer Depth (MD) 7966 25. Producing Intervals 26. Perforation Record Formation Top Bottom Perforated Interval Size No. Holes Perf. Status A) 6210 8376 6210 TO 8376 0.360 213 **OPEN MESAVERDE** B) C) D) 27. Acid, Fracture, Treatment, Cement Squeeze, Etc Depth Interval Amount and Type of Material PUMP 11,780 BBL SLICKWATER AND 248,137 LBS 30/50 MESH SAND 28. Production - Interval A Oil Gravity Produced Date Tested Production BBL MCF BBL Corr. API Gravity 10/30/2013 11/03/2013 24 16.0 1840.0 FLOWS FROM WELL 0.0 Choke Tbg. Press Csg. 24 Hr. Oil Water Gas:Oil Well Status MCF BBL Rate BBL 793 Ratio Size Flwg. Press 20/64 1189.0 1840 0 **PGW** 16 28a. Production - Interval B Water Date First Test Hours Oil Gas Oil Gravity Gas Production Method MCF BBL BBL Corr. API Produced Date Tested Production Gravity

Csg.

Press

24 Hr.

Rate

Choke

Size

Tbg. Press

Flwg.

Gas

Oil

BBL

Gas:Oil

Ratio

Well Status

Water

<sup>(</sup>See Instructions and spaces for additional data on reverse side)
ELECTRONIC SUBMISSION #227984 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

<sup>\*\*</sup> OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

28b. Prod	duction - Inter	val C										
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	у	Production Method		
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well St	Well Status			
28c. Prod	duction - Inter	/al D			<u> </u>	<u> </u>						
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	у	Production Method		
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well St	tatus			
29. Dispo	osition of Gas(	Sold, used	for fuel, vent	ed, etc.)		•	•	•				
	mary of Porous	S Zones (Inc	clude Aquife	rs):					31. Fo	rmation (Log) Ma	rkers	
tests,	v all important including dep ecoveries.	zones of po th interval	prosity and c rested, cushic	ontents thereon used, time	reof: Core	d intervals an en, flowing ar	nd all drill-stem nd shut-in pressures					
	Formation		Тор	Bottom		Descript	tions, Contents, etc.		Name Top			Top  Meas. Dept
32. Addi	tional remarks	(include pl	ugging proc	edure):					BII MA W	REEN RIVER RD'S NEST AHOGANY ASATCH ESAVERDE		1041 1380 1872 4142 6201
The surfa LTC perfo	first 210 ft. of ace hole was csg was run pration report e enclosed attalectrical/Mech.	the surfactive surfaction to the surfaction of the surfaction of the surface s	ce hole was n an 11 in. b ft. to 8466 vey.	drilled with the control of the cont	sg was ru	un from surfa	ace to 5031 ft.; al well history,		DST Re	port	4. Direction	nal Survey

Name (please print) KAY KELLY Title SR STAFF REGULATORY SPECIALIST

(Electronic Submission) Date 11/26/2013

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fradulent statements or representations as to any matter within its jurisdiction.

				U	S ROC	KIES R	EGION	
Operation Summary Report								
Well: BONANZA 1023-7D1CS GREEN Spud Date: 6/8/2013								
Project: UTAH-UI	INTAH		Site: BON	IANZA 10	23-7D P	AD		Rig Name No: PROPETRO 12/12, SST 8/8
			e: 5/22/20	13			End Date: 8/22/2013	
Active Datum: RKB @5,216.00usft (above Mean Sea Level)			a	UWI: NW/NW/0/10/S/23/E/7/0/0/26/PM/N/597/\				97/W/0/629/0/0
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
6/8/2013	9:00 - 11:30	2.50	MIRU	01	В	Р	64	SKID RIG 20' TO BONANZA 1023-7D1CS, RIG UP SET MATTING BOARD, SET RIG IN PLACE, CATWALK, PIPE RACKS, PLACE BOTTOME HOLE ASSEMBLY
	11:30 - 12:00	0.50	MIRU	01	С	Р	64	PRE SPUD JOB SAFETY MEETING REVEW DIRECTIONAL PLANS AND PLATS AND VERIFY LAT/LONGS AND WELL ORDER VERIFY DIRECTIONAL DRILLERS PLAN IS THE MOST RECENT AND APPROVED VERSION REFERENCE WELLBORE DIAGRAMS FOR EXACT CASING DESIGN AND GENERAL OVERVEW OF WELLBORE, PRIOR TO SPUD. FINISH PICKING UP BHA. PICK UP NOV 1.83 DEGREE BENT MOTOR (RUN #10 )17 REV/GAL SN (775-77189). PICK UP 12.25 REED DRILL BIT RUN 2 SN (172027)
	12:00 - 13:30	1.50	DRLSUR	02	В	P	64	SPUD @ 06/08/2013 12:00.  DRILL 12:25" HOLE 44'-210' (166', 110'/PER HOUR).  WEIGHT ON BIT 5-15 K.  STROKES PER MINUTE 120 GALLONS PER MINUTE 491.  PRESSURE ON/OFF (BOTTOM) 800/600.  ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138.  UP/DOWN/ ROTATE 20/20/20 K. DRAG 0 K.  CIRCULATE CLOSED LOOP SYSTEM WITH 8.3#  WATER.  RUNNING VOLUME THROUGH 1 CENTRAFUGE  DEWATERING AND,  RUNNING VOLUME OVER BOTH SHAKERS.  DRILL DOWN TO 210' WITH 6" DRILL COLLARS.
	13:30 - 15:00	1.50	DRLSUR	06	А	Р	230	PRE JOB SAFETY MEETING, CIRC 15 MINUTES AND, TRIP OUT TO CHANGE ASSEMBLY. LAY DOWN 6" DRILL COLLARS, BREAK 12 1/4" BIT. MAKE UP REED 11" BIT ( 2ND RUN) (SN 172024) PICK UP 8" DIRECTIONAL ASSEMBLY. INSTALL EM TOOL, TRIP IN HOLE.

11/20/2013 2:54:33PM 1

### API Well Number: 43047532460000 **US ROCKIES REGION Operation Summary Report** Well: BONANZA 1023-7D1CS GREEN Spud Date: 6/8/2013 Project: UTAH-UINTAH Site: BONANZA 1023-7D PAD Rig Name No: PROPETRO 12/12, SST 8/8 **Event: DRILLING** End Date: 8/22/2013 Start Date: 5/22/2013 UWI: NW/NW/0/10/S/23/E/7/0/0/26/PM/N/597/W/0/629/0/0 Active Datum: RKB @5,216.00usft (above Mean Sea Date P/U Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 15:00 - 18:00 3.00 DRLSUR 02 Ρ 230 В DRILL 11". SURFACE HOLE 210'-560', (350', 116'/PER HOUR). WEIGHT ON BIT 18-25 K. STROKES PER MINUTE 120 GALLONS PER MINUTE PRESSURE ON/OFF(BOTTOM) 1100/900. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 60/40/50 K. DRAG 10 K. SLIDING 15' PER 90'OF ROTATION GETTING 1.5 **DEGREE BUILD RATES** CURRENTLY 5.23' NORTH 1.98' RIGHT OF THE LINE CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# WATER. RUNNING VOLUME THROUGH 1 CENTRAFUGE DEWATERING AND, RUNNING VOLUME OVER BOTH SHAKERS. NO HOLE ISSUES. 18:00 - 0:00 6.00 DRLSUR 02 580 DRILL 11". SURFACE HOLE 560'-1040', (480', 80'/PER HOUR). WEIGHT ON BIT 18-25 K. STROKES PER MINUTE 120 GALLONS PER MINUTE PRESSURE ON/OFF(BOTTOM) 1200/1000. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 65/45/55 K. DRAG 10 K. SLIDING 15' PER 90'OF ROTATION GETTING 1.5 **DEGREE BUILD RATES** CURRENTLY 8.4' NORTH 3.3' RIGHT OF THE LINE CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# WATER. RUNNING VOLUME THROUGH 1 CENTRAFUGE DEWATERING AND, RUNNING VOLUME OVER BOTH SHAKERS. NO HOLE ISSUES. 6/9/2013 0:00 - 6:00 6.00 **DRLSUR** 02 1060 DRILL 11". SURFACE HOLE 1040'-1580', (540', 90'/PFR HOUR) WEIGHT ON BIT 18-25 K. STROKES PER MINUTE 120 GALLONS PER MINUTE PRESSURE ON/OFF(BOTTOM) 1400/1200. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 75/55/65 K. DRAG 10 K. SLIDING 15' PER 90'OF ROTATION GETTING 1.5 **DEGREE BUILD RATES** CURRENTLY 5.4' NORTH 2.3' RIGHT OF THE LINE CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# WATER. RUNNING VOLUME THROUGH 1 CENTRAFUGE DEWATERING AND, RUNNING VOLUME OVER BOTH SHAKERS. PUT AIR ON THE HOLE @1800 CFM, @1500'.

#### API Well Number: 43047532460000 US ROCKIES REGION **Operation Summary Report** Well: BONANZA 1023-7D1CS GREEN Spud Date: 6/8/2013 Site: BONANZA 1023-7D PAD Project: UTAH-UINTAH Rig Name No: PROPETRO 12/12, SST 8/8 **Event: DRILLING** End Date: 8/22/2013 Start Date: 5/22/2013 UWI: NW/NW/0/10/S/23/E/7/0/0/26/PM/N/597/W/0/629/0/0 Active Datum: RKB @5,216.00usft (above Mean Sea Date P/U Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 6:00 - 8:30 2.50 DRLSUR 02 Ρ 1600 В DRILL 11". SURFACE HOLE 1580'-1910', (330', 132'/PER HOUR). WEIGHT ON BIT 18-25 K. STROKES PER MINUTE 120 GALLONS PER MINUTE PRESSURE ON/OFF(BOTTOM) 1400/1200. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 75/55/65 K. DRAG 10 K. SLIDING 15' PER 90'OF ROTATION GETTING 1.5 **DEGREE BUILD RATES** CURRENTLY 5.4' NORTH 2.3' RIGHT OF THE LINE CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# WATER. RUNNING VOLUME THROUGH 1 CENTRAFUGE DEWATERING AND, RUNNING VOLUME OVER BOTH SHAKERS. PUT AIR ON THE HOLE @1800 CFM, @1500'. 8:30 - 12:00 3.50 **DRLSUR** Ζ 1930 \*\*\*FAILURE: RIG EQUIPMENT - (AIR BOOSTER) REPLACED GASKET ON AIR BOOSTER. 12:00 - 16:30 4.50 DRLSUR 02 В 1930 DRILL 11". SURFACE HOLE 1910'-2330', (420', 93'/PER HOUR). WEIGHT ON BIT 18-25 K. STROKES PER MINUTE 120 GALLONS PER MINUTE PRESSURE ON/OFF(BOTTOM) 1450/1200. ROTARY RPM 55, MOTOR RPM 83, TOTAL RPM 138. UP/DOWN/ ROT 85/65/75 K. DRAG 10 K. SLIDING 15' PER 90'OF ROTATION GETTING 1.5 DEGREE BUILD RATES CURRENTLY 0.25' NORTH 1.89' RIGHT OF THE LINE CIRCULATE CLOSED LOOP SYSTEM WITH 8.4# WATER RUNNING VOLUME THROUGH 1 CENTRAFUGE DEWATERING AND RUNNING VOLUME OVER BOTH SHAKERS. PUT AIR ON THE HOLE @1800 CFM, @1500'. 16:30 - 18:30 2.00 DRI SUR 05 C 2350 CIRCULATE AND CONDITION HOLE, VOLUME IS CLEAN COMING OVER SHAKERS, 4-400 BBL UPRIGHT'S FULL AND 2-400 BBL UPRIGHTS EMPTY. MUD TANKS FULL 18:30 - 21:30 3.00 **CSGSUR** Р 2350 06 D TRIP OUT OF HOLE, LAY DOWN DRILL STRING, BOTTOM HOLE DIRECTIONAL TOOLS, MOTOR AND, BIT. CLEAR TOOL AREA. 21:30 - 22:30 1.00 **CSGSUR** 06 D Р 2350 PRE JOB SAFETY MEETING, MOVE PIPE RACKS AND CATWALK. PULL DIVERTER HEAD. RIG UP TO RUN SURFACE CASING. CLEAR UNRELATED TOOLS.

#### API Well Number: 43047532460000 US ROCKIES REGION **Operation Summary Report** Well: BONANZA 1023-7D1CS GREEN Spud Date: 6/8/2013 Site: BONANZA 1023-7D PAD Project: UTAH-UINTAH Rig Name No: PROPETRO 12/12, SST 8/8 **Event: DRILLING** End Date: 8/22/2013 Start Date: 5/22/2013 UWI: NW/NW/0/10/S/23/E/7/0/0/26/PM/N/597/W/0/629/0/0 Active Datum: RKB @5,216.00usft (above Mean Sea Date P/U Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 22:30 - 0:00 1.50 **CSGSUR** 12 Ρ 2350 С CONTRACTOR(PROPETRO12). RUN 52 JOINTS OF 8-5/8". 28# J-55 LTC CASING. RAN 1 CENTRALIZER ON FIRST THREE JOINTS. AND EVERY OTHER JOINT FOR 2 JOINTS FOR A TOTAL OF 5 CENTRALIZERS. RUN A TOTAL OF 52 JOINTS. RUN CASING TO BOTTOM WITH NO PROBLEMS. SET FLOAT SHOE @ 2304.12' KB. SET TOP OF BAFFLE PLATE @ 2258.00' KB. 6/10/2013 0:00 - 3:00 3.00 **CSGSUR** 2350 PRE JOB SAFETY MEETING, RELEASE RIG @ 06/10/2013 05:30 CONTRACTOR(PROPETRO CEMENT). RAN 200' OF 1". PIPE DOWN BACK-SIDE OF CASING. PRESSURE TEST LINES TO 2000 PSI. PUMP 145 BBLS OF WATER AHEAD. MIX AND PUMP 20 BBLS OF 8.5# GEL WATER AHEAD MIX AND PUMP (300 sx) 61.4 BBLS OF 15.8.8# 1.15 YIELD. DROP PLUG ON FLY. DISPLACE WITH 140 BBLS OF H2O, NO RETURNS THROUGH OUT JOB, FINAL LIFT OF 300 PSI AT 3 BBL/MINUTE. BUMP THE PLUG WITH 600 PSI, HELD 600 PSI FOR 5 MINUTES, TESTED FLOAT AND FLOAT HELD. SHUT DOWN AND WASH UP. PUMP CEMENT DOWN ONE INCH PIPE WITH 150 sx (30.7 bbls.)SAME CEMENT NO CEMENT RETURNS TO SURFACE. SHUT DOWN AND WASH UP. WAIT 1.5 HOURS ON CEMENT, CEMENT DOWN BACKSIDE W/ 150 sx (30.7 bbls.) SAME CEMENT, NO CEMENT RETURNS TO SURFACE. SHUT DOWN AND WASH UP. WAIT 1.5 HOURS ON CEMENT, CEMENT DOWN BACKSIDE W/ 100 sx (20.4 bbls.) SAME CEMENT, 3 BBLS CEMENT RETURNS TO SURFACE. RIG DOWN CEMENTERS. (CEMENT JOB FINISHED @ 06/10/2013 07:00) 8/19/2013 2:00 - 3:30 1.50 MIRU3 01 Ε Р 2350 PREP THE RIG TO SKID 3:30 - 4:00 0.50 MIRU3 01 С Ρ 2350 SKID THE RIG AND CENTER IT OVER THE BONANZA 1023-7D1CS 4:00 - 5:00 1.00 2350 RIGGING UP AFTER THE SKID MIRU3 01 В Р 5:00 - 7:00 2.00 PRPSPD Ρ 2350 Α 14 NIPPLE UP THE BOP, CHOKE MANIFOLD, MUD AND FLOW LINE

API We	<del>ll Number</del>	4304	753246			KIES RE	EGION	
				Opera	tion S	umma	ry Report	
Well: BONANZA	1023-7D1CS GREEN	1					Spud Date: 6/8	//2013
Project: UTAH-U	JINTAH		Site: BO	NANZA 10	23-7D PA	AD.		Rig Name No: PROPETRO 12/12, SST 8/8
Event: DRILLING	G		Start Dat	e: 5/22/20	113			End Date: 8/22/2013
Active Datum: R	KB @5,216.00usft (ab	ove Mean Se	ea	UWI: NV	N/NW/0/1	0/S/23/E/	7/0/0/26/PM/N/5	97/W/0/629/0/0
Level)				<u> </u>				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:00 - 11:00	4.00	PRPSPD	15	A	Р	2350	HELD A SAFETY MEETING WITH A-1 TESTER, FILL THE TRUCK WITH WATER, RIGGED UP TESTER TESTING CASING AND CHOKE TO 1500 PSI FOR 30 MINUTES. TEST ANNULAR TO 2500 PSI FOR 10 MIN AND 250 PSI FOR 5 MINUTES. TEST I-BOP VALVE, FLOOR VALVE, DART VALVE, PIPE AND BLIND RAMS, INSIDE AND OUTSIDE KILL LINE VALVES INSIDE OUTSIDE CHOKE LINE VALVE, HCR VALVE, CHOKE LINE, CHOKE MANIFOLD VALVES TO 5000 PSI FOR 10 MINUTES AND 250 PSI FOR 5 MINUTES.
	11:00 - 11:30	0.50	PRPSPD	14	В	Р	2350	INSTALLED THE WEAR BUSHING
	11:30 - 14:00	2.50	PRPSPD	06	Α	Р	2350	PICK UP A NEW MUD MOTOR SCRIBE THE ASSEMBLY AND TRIP IN THE HOLE. TAGGED CEMENT @ 2170'
	14:00 - 15:00	1.00	DRLPRC	02	F	Р	2350	DRILLING THE SHOE TRACK SPM 85 GPM 355 WOB 10-12K RPM 40 MM RPM 71
	15:00 - 0:00	9.00	DRLPRC	02	В	P	2350	DRILL SLIDE F/ 2350' - 3954' (1602' @ 178.2' / HR) WEIGHT ON BIT 18-22 K.  AVERAGE WOB 20K ROTARY RPM 65, MUD MOTOR RPM 113. STROKES PER MINUTE 135 GALLONS PER MINUTE 565 OFF/ON PSI 1350 / 1750 DIFFERENTIAL 400 TORQUE HIGH/LOW 5000/7000 OFF BOTTOM TORQUE 4500 STRING WEIGHT UP/DOWN/ROT 110/85/100. DRAG 10 K BOS DEWATER AS NEEDED WT 8.7 VIS 31.  ////// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 100 BBL. FLUID FOR HOLE VOLUME 100 BARRELS LOSSES @ 11 BBL/HR NO FLARE  BIT POSITION: 3954' East 5.5' South 9.87' PBHL  Footage Feet% Total: 1604' Slide: 97'= 6 % Rotate: 1507'= 94%  Time/Min/Hrs%:1500 Hrs-2400 Hrs=9.0 Hrs. Total Drilling: 7.42 hrs: Total Connection Time: 1.58 hrs=17.5% Slide: 1.17 hrs= 15.8 % Rotate: 6.25 hrs= 84.2 %

		U	S ROC	KIES RE	EGION	
		Opera	ition S	umma	ry Report	
ell: BONANZA 1023-7D1CS GREEN					Spud Date: 6/8	8/2013
oject: UTAH-UINTAH	Site: BO	NANZA 10	)23-7D PA	<b>ND</b>		Rig Name No: PROPETRO 12/12, SST 8/8
rent: DRILLING	Start Dat	e: 5/22/20	)13			End Date: 8/22/2013
tive Datum: RKB @5,216.00usft (above l vel)	Mean Sea	UWI: N\	W/NW/0/1	0/S/23/E/	7/0/0/26/PM/N/5	597/W/0/629/0/0
	ration Phase hr)	Code	Sub Code	P/U	MD From (usft)	Operation
8/20/2013 0:00 - 5:00 5	.00 DRLPRV	02	В	P	3954	DRILL SLIDE F/ 3954' - 4620' ( 666' @ 133.2' / HR) WEIGHT ON BIT 18-24 K. AVERAGE WOB 20K ROTARY RPM 65, MUD MOTOR RPM 113. STROKES PER MINUTE 135 GALLONS PER MINUTE 565 OFF/ON PSI 1350 / 1750 DIFFERENTIAL 400 TORQUE HIGH/LOW 5000/8000 OFF BOTTOM TORQUE 4500 STRING WEIGHT UP/DOWN/ROT 115/90/105. DRAG 10 K BOS DEWATER AS NEEDED WT 8.8 VIS 31. ////// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 40 BBL. FLUID FOR HOLE VOLUME 30 BARRELS LOSSES @ 6 BBL/HR NO FLARE  BIT POSITION: 4620' West 2.91' South 1.68' PBHL  Footage Feet% Total: 666' Slide: 50'= 7.5 % Rotate: 616'= 92.5%  Time/Min/Hrs%:0000 Hrs-0500 Hrs=5.0 Hrs. Total Drilling: 4.17 hrs: Total Connection Time: .83 hrs=16.6%

#### API Well Number: 43047532460000 US ROCKIES REGION **Operation Summary Report** Well: BONANZA 1023-7D1CS GREEN Spud Date: 6/8/2013 Project: UTAH-UINTAH Site: BONANZA 1023-7D PAD Rig Name No: PROPETRO 12/12, SST 8/8 Event: DRILLING Start Date: 5/22/2013 End Date: 8/22/2013 UWI: NW/NW/0/10/S/23/E/7/0/0/26/PM/N/597/W/0/629/0/0 Active Datum: RKB @5,216.00usft (above Mean Sea Date P/U Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 5:00 - 13:00 8.00 DRLPRV 02 В Р 4620 DRILL SLIDE F/ 4620' - 5761' (1141' @ 142.6' / HR) WEIGHT ON BIT 18-24 K. AVERAGE WOB 20K ROTARY RPM 65. MUD MOTOR RPM 113. STROKES PER MINUTE 135 GALLONS PER MINUTE 565 OFF/ON PSI 1750 / 2050 DIFFERENTIAL 300 TORQUE HIGH/LOW 7000 / 10000 OFF BOTTOM TORQUE 6000 STRING WEIGHT UP/DOWN/ROT 160 / 110 / 130. DRAG 30 K **BOS DEWATER AS NEEDED** WT 8.9 VIS 33. ///// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 70 BBL. FLUID FOR HOLE VOLUME 60 BARRELS LOSSES @ 7 BBL/HR NO FLARE BIT POSITION: 5762' West 2.57' North 7.55' PBHL Footage Feet% Total: 1142' Slide: 25'=4.38 % Rotate: 1092'= 95.62% Time/Min/Hrs%:0500 Hrs-1300 Hrs=8.00 Hrs. Total Drilling: 6.84 hrs: Total Connection Time: 1.16 hrs=14.5% Slide: .84 hrs= 10.5 % Rotate: 6 hrs= 75 % 13:00 - 13:30 5761 0.50 **DRLPRV** 07 Α Ρ RIG SERVICE 13:30 - 14:00 0.50 **DRLPRV** 07 С Ρ 5761 REPLACE THE GRABBER DIES

			U	S ROC	KIES RE	GION	
			Opera	tion S	umma	ry Report	
ell: BONANZA	1023-7D1CS GREEN					Spud Date: 6/8	8/2013
oject: UTAH-U	INTAH	Site: BON	NANZA 10	)23-7D PA	AD OA		Rig Name No: PROPETRO 12/12, SST 8/8
ent: DRILLING	3	Start Date	e: 5/22/20	)13			End Date: 8/22/2013
	KB @5,216.00usft (above Mea	n Sea	UWI: N	W/NW/0/1	0/S/23/E/	7/0/0/26/PM/N/5	597/W/0/629/0/0
vel)		Dhara	0.4		D/III		O. matter
Date	Time Duratio	n Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	14:00 - 0:00 10.00	DRLPRV	02	В	P	5761	DRILL SLIDE F/ 5761' - 7101' ( 1340' @ 134' / HR) WEIGHT ON BIT 18-24 K.  AVERAGE WOB 20K ROTARY RPM 65, MUD MOTOR RPM 113. STROKES PER MINUTE 135 GALLONS PER MINUTE 565 OFF/ON PSI 1800 / 2150 DIFFERENTIAL 350 TORQUE HIGH/LOW 8000 / 12000 OFF BOTTOM TORQUE 6000 STRING WEIGHT UP/DOWN/ROT 175 / 125 / 140. DRAG 35 K BOS DEWATER AS NEEDED WT 8.8 VIS 32. ////// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 80 BBL. FLUID FOR HOLE VOLUME 50 BARRELS LOSSES @ 5 BBL/HR NO FLARE  BIT POSITION: 7101' West 3.94' North 6.03' PBHL  Footage Feet% Total: 1339' Slide: 40'=2.9 % Rotate: 1299'= 97.1%  Time/Min/Hrs%: 1300 Hrs-2400 Hrs=10.0Hrs. Total Drilling: 8.74 hrs: Total Connection Time: 1.26 hrs=10.5% Slide: 1.08 hrs= 12.4 %

						KIES RE		
				Opera	tion S	umma	ry Report	
Vell: BONANZA 102	23-7D1CS GREEN						Spud Date: 6/8	3/2013
roject: UTAH-UINTA	AH		Site: BON	IANZA 10	)23-7D PA	AD		Rig Name No: PROPETRO 12/12, SST 8/8
vent: DRILLING			Start Date	e: 5/22/20	)13			End Date: 8/22/2013
ctive Datum: RKB (evel)	@5,216.00usft (abo	ove Mean S	ea	UWI: N\	N/NW/0/1	0/S/23/E/	7/0/0/26/PM/N/5	97/W/0/629/0/0
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
8/21/2013 0:	:00 - 5:00	5.00	DRLPRV	02	В	P	7101	DRILL SLIDE F/ 7101' - 7760' ( 659' @ 131.8' / HR) WEIGHT ON BIT 18-24 K.  AVERAGE WOB 20K ROTARY RPM 65, MUD MOTOR RPM 113. STROKES PER MINUTE 135 GALLONS PER MINUTE 565 OFF/ON PSI 1800 / 2150 DIFFERENTIAL 350 TORQUE HIGH/LOW 8000 / 12000 OFF BOTTOM TORQUE 6000 STRING WEIGHT UP/DOWN/ROT 175 / 125 / 140. DRAG 35 K BOS DEWATER AS NEEDED WT 8.8 VIS 32. ///// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 40 BBL. FLUID FOR HOLE VOLUME 20 BARRELS LOSSES @ 4 BBL/HR 2-7' FLARE WHILE DRILLING BIT POSITION: 7760' East 1.61' North 8.73' PBHL  Footage Feet% Total: 673' Slide: 19'=2.8 % Rotate: 654'= 97.2%  Time/Min/Hrs%:0000 Hrs-0500 Hrs 5.0Hrs. Total Drilling: 4.42 hrs: Total Connection/Rig Time: .58 hrs=13.1% Slide: .33 hrs= 7.5 %

#### API Well Number: 43047532460000 US ROCKIES REGION **Operation Summary Report** Well: BONANZA 1023-7D1CS GREEN Spud Date: 6/8/2013 Project: UTAH-UINTAH Site: BONANZA 1023-7D PAD Rig Name No: PROPETRO 12/12, SST 8/8 **Event: DRILLING** End Date: 8/22/2013 Start Date: 5/22/2013 UWI: NW/NW/0/10/S/23/E/7/0/0/26/PM/N/597/W/0/629/0/0 Active Datum: RKB @5,216.00usft (above Mean Sea Date P/U Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 5:00 - 15:30 10.50 **DRLPRV** 02 Ρ 7760 В DRILL SLIDE F/ 7760' - 8490' (730' @ 69.5' / HR) WEIGHT ON BIT 18-24 K. AVERAGE WOB 20K ROTARY RPM 65. MUD MOTOR RPM 113 / 100. STROKES PER MINUTE 130 / 120 GALLONS PER MINUTE 550 / 502 OFF/ON PSI 1900 / 2300 2600 / 3000 DIFFERENTIAL 400 TORQUE HIGH/LOW 8000 / 12000 OFF BOTTOM TORQUE 6000 STRING WEIGHT UP/DOWN/ROT 180 / 130 / 155. DRAG 25 K **BOS DEWATER AS NEEDED** WT 11.8 VIS 36. ///// DRILLING WITH FLOWZAN MUD CHEM ///// PUMP LCM SWEEPS TO HELP WITH LOSSES. USED 45 BBL. FLUID FOR HOLE VOLUME 40 BARRELS LOSSES @ 4 BBL/HR 2-5' FLARE WHILE DRILLING UNTIL THE TRANSFER WAS COMPLETE TRANSFERED HEAVY MUD IN @ 8000' WE TRANSFERED A LITTLE EARLY BUT WE WERE BEGINING TO SUCK AIR ON THE PUMPS DUE TO THE LOW VOLUME OF THE LIGHT WEIGHT MUD. BIT POSITION: 8490' East 13.55' South 10.32' PBHL Footage Feet% Total: 730' Slide: 0'= 0 % Rotate: 730'= 100% Time/Min/Hrs%:0500 Hrs-1535 Hrs 10.58Hrs. Total Drilling: 9.91 hrs: Total Connection/Rig Time: .67 hrs=6.3% Slide: 0 hrs= 0 % Rotate: 9.91 hrs= 100 % 15:30 - 16:30 1.00 **DRLPRV** 05 C 8490 CIRCULATE BOTTOMS UP FOR THE WIPER TRIP 16:30 - 18:30 2.00 DRLPRV 06 Ε Ρ 8490 15 STAND WIPER TRIP NO EXCESS DRAG NO FILL 18:30 - 20:00 1.50 DRLPRV С 8490 05 CIRCULATE AND CONDITION THE MUD TO RUN **CASING** NO FLARE TRIP OUT OF THE HOLE TO RUN CASING 20:00 - 0:00 4.00 **DRLPRV** 06 Α Р 8490 8/22/2013 0:00 - 0:30 0.50 DRLPRV Ρ 8490 PULL THE WEAR BUSHING 14 В

#### API Well Number: 43047532460000 US ROCKIES REGION **Operation Summary Report** Spud Date: 6/8/2013 Well: BONANZA 1023-7D1CS GREEN Project: UTAH-UINTAH Site: BONANZA 1023-7D PAD Rig Name No: PROPETRO 12/12, SST 8/8 **Event: DRILLING** End Date: 8/22/2013 Start Date: 5/22/2013 UWI: NW/NW/0/10/S/23/E/7/0/0/26/PM/N/597/W/0/629/0/0 Active Datum: RKB @5,216.00usft (above Mean Sea Date P/U Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 0:30 - 7:30 7.00 **CSGPRO** 12 Ρ 8490 С HELD A SAFETY MEETING WITH BJ CEMENTERS RIGGED UP THE LAY DOWN TRUCK AND FLOOR RAN 192 TOTAL JTS. OF CASING (77 JOINTS OF 4.5"/11.6# / N-80/ LTC + 1 MARKER) + (113 JTS. OF 4.5"/ 11.6#/ I-80/ DQX + 1-DQX CROSS OVER). LANDED @ 8466.32', FLOAT COLLAR @ 8419.01', MESA VERDE MARKER @ 6270.45', CROSS OVER JT. @ 5008.82'. 7:30 - 8:30 1.00 **CSGPRO** 05 8490 CIRCULATE THE CASING ON BOTTOM SPM 85 **GPM 356** PSI 530 NO FLARE ON BOTTOMS UP RIGGED DOWN THE CASING CREW HELD A SAFETY MEETING WITH BJ CEMENTERS RIGGED UP BJ CEMENTERS 8:30 - 12:00 **CSGPRO** 8490 3.50 12 Ε PRESSURE TEST TO 4830 PSI., DROPPED BOTTOM PLUG, PUMP 25 BBLS OF FRESH WATER. PUMP 167 BBLS (460 SX) OF PREMIUM LITE II LEAD CEMENT,12.5 PPG 1.98 YLD, .05 LB/SACK OF STATIC FREE + .4%BWOC R-3 +.25 LBS/SACK CELLO FLAKE + 5 LBS/SACK KOL-SEAL + .4% BWOC FL-52 + .2%BWOC SODIUM METASILICATE + 6% BWOC BENTONITE + 101 %FRESH WATER . FOLLOWED BY 225 BBLS (960 SX) OF 14.3# 1.32 YD 5.92 GAL/SK. POZ 50/50 TAIL CEMENT + 2% BWOC BENTONITEII + .005 LB/SACK STATIC FREE + 10% BWOW SODIUM CHI ORIDE + 55%BWOC R-3 + 002GPS FP-6L + 58 8% FRESH WATER SHUT DOWN AND FLUSHLINES DROP PLUG AND DISPLACE W/ 131 BBLS OF FRESH WATER TREATED WITH CLAYEIX AND MAGNACIDE FULL RETURNS WITH 8 BBI S OF WATER AND NO CEMENT LIFT PSLOF 2588 / BUMP PLUG 3167 PSL . PRESSURE HELD 5 MINS. \*\*\*\* FLOAT DID NOT HOLD, PRESSURED BACK UP TO 3126 PSI FOR 5 MINUTES, BLED OFF THE PRESSURE, WE HAD 1.5 BBL. RETURNED BACK TO THE TRUCK. FLOAT HELD \*\*\*\*\* EST. TOC FOR LEAD 400', EST TOC FOR TAIL 3635'. RIG DOWN CEMENTERS. 12:00 - 12:30 0.50 **CSGPRO** 14 8490 SET THE PACK OFF 12:30 - 13:00 0.50 **RDMO** 14 Ρ 8490 NIPPLE DOWN THE BOP RIG RELEASED @ 13:00

## General

## **Customer Information** 7:

Company	US ROCKIES REGION
Representative	
Address	

## Well/Wellbore Information 1.2

				P
				ΔPI
			US ROCKIES REGION	We:
				11
General				Nun
Customer Information				mber:
Company	US ROCKIES REGION			4
Representative				30
Address				)4
Well/Wellbore Information	tion			7532 <sup>,</sup>
Well	BONANZA 1023-7D1CS GREEN	Wellbore No.	НО	460
Well Name	BONANZA 1023-7D1CS	Wellbore Name	BONANZA 1023-7D1CS	00
Report No.	1	Report Date	10/14/2013	00
Project	UTAH-UINTAH	Site	BONANZA 1023-7D PAD	)
Rig Name/No.		Event	COMPLETION	
Start Date	10/9/2013	End Date	10/30/2013	
Spud Date	6/8/2013	Active Datum	RKB @5,216.00usft (above Mean Sea Level)	
UWI	NW/NW/0/10/S/23/E/7/0/0/26/PM/N/597/W/0/629/0/0			

### General <del>.</del>.

Contractor	Job Method	Supervisor	
Perforated Assembly	Conveyed Method		

Summary

1.5

## Initial Conditions 4.

Fluid Type	Fluid Density	Gr	iross Interval	6,210.0 (usft)-8,376.0 (usft Start Date/Time	Start Date/Time	10/14/2013 12:00AM
Surface Press	Estimate Res Press	ON	No. of Intervals	59	59 End Date/Time	10/14/2013 12:00AM
TVD Fluid Top	Fluid Head	Tot	Fotal Shots	213	213 Net Perforation Interval	63.00 (usft)
Hydrostatic Press	Press Difference	Av	Avg Shot Density	3.38 (shot/ft)	3.38 (shot/ft) Final Surface Pressure	
Balance Cond NEUTRAL					Final Press Date	

# Intervals

## Perforated Interval 2.1

Perforated Interval (Continued)

													I SN	US ROCKIES REGION	
2.1 Pe	Perforated Interval (Continued)	Continue	(pe												ll Nu
Date	Formation/ Reservoir	(nsft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	umber umber
10/14/201	MESAVERDE/			6,238.0	6,241.0			0.360		3.375	120.00		23.00 PRODUCTIO	ористіо	: 4
2:00AM	MESAVEDDE/			0 793	6 565 0	0		088.0		3 375	120 00		23 00 00	CITOLICO	130
	MESAVERDE/			0,304.0				0.300		0.00	00.081		N N N N N N N N N N N N N N N N N N N		475
_	MESAVERDE/			6,592.0	6,593.0	4.00		0.360		3.375	120.00		23.00 PRODUCTIO N	ODUCTIO	3246
															50
10/14/201 3 12:00AM	MESAVERDE/			6,630.0	6,631.0	4.00		0.360		3.375	120.00		23.00 PRODUCTIO	ODUCTIO	000
10/14/201 3	MESAVERDE/			6,648.0	6,649.0	4.00		0.360		3.375	120.00		23.00 PRC	23.00 PRODUCTIO N	
10/14/201	MESAVERDE/			6,698.0	0,699.0	4.00		0.360		3.375	120.00		23.00 PRODUCTIO	ODUCTIO	
12:00AM															
10/14/201 3 12:00AM	MESAVERDE/			6,752.0	6,753.0	4.00		0.360		3.375	120.00		23.00 PRC N	23.00 PRODUCTIO N	
10/14/201 3 12:00AM	MESAVERDE/			6,829.0	6,830.0	4.00		0.360		3.375	120.00		23.00 PRODUCTIO N	ODUCTIO	
_	MESAVERDE/			6,869.0	6,870.0	4.00		0.360		3.375	120.00		23.00 PRC	23.00 PRODUCTIO N	
_	MESAVERDE/			6,907.0	6,908.0	4.00		0.360		3.375	120.00		23.00 PRODUCTIO N	ODUCTIO	
10/14/201	10/14/201 MESAVERDE/			6,938.0	6,939.0	4.00		0.360		3.375	120.00		23.00 PRODUCTIO	ODUCTIO	
3 12:00AM													Z		
_	MESAVERDE/			7,007.0	7,008.0	4.00		0.360		3.375	120.00		23.00 PRODUCTIO N	ODUCTIO	
_	MESAVERDE/			7,029.0	7,030.0	4.00		0.360		3.375	120.00		23.00 PRODUCTIO N	ODUCTIO	
_	MESAVERDE/			7,176.0	7,177.0	4.00		0.360		3.375	120.00		23.00 PRODUCTIO	ODUCTIO	
3 12:00AM													Z		

Perforated Interval (Continued)

															API
													US ROCK	US ROCKIES REGION	Well
Δ.	Perforated Interval (Continued)	(Continu	ed)												Nu
Date	Formation/ Reservoir	(nsft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Reason Weight (gram)	Misrun	ımber
10/14/201	MESAVERDE/			7,194.0	7,195.0			0.360		3.375	120.00		23.00 PRODUCTIO	0	: -
12:00AM													<u>z</u>		43
10/14/201	MESAVERDE/			7,207.0	7,208.0	4.00		0.360		3.375	120.00		23.00 PRODUCTIO	<u>o</u>	04'
12:00AM													Z		753
10/14/201 3 12:00AM	MESAVERDE/			7,231.0	7,232.0	4.00		0.360		3.375	120.00		23.00 PRODUCTIO	<u>o</u>	3246
10/14/201 3	MESAVERDE/			7,260.0	7,261.0	4.00		0.360		3.375	120.00		23.00 PRODUCTIO N	Q	0000
10/14/201	MESAVERDE/			7,270.0	7,271.0	4.00		0.360		3.375	120.00		23.00 PRODUCTIO	Q	
12:00AM	MESAVERDE/			7 310 0	7 311 0	3 00		0.360		3.375	120 00		23 00 PRODUCTIO	C	
3 12:00AM				2						5	9		Z	<u>)</u>	
10/14/201 3 12:00AM	MESAVERDE/			7,329.0	7,330.0	3.00		0.360		3.375	120.00		23.00 PRODUCTIO N	Q	
10/14/201 3	MESAVERDE/			7,354.0	7,355.0	3.00		0.360		3.375	120.00		23.00 PRODUCTIO N	Q	
10/14/201 3	MESAVERDE/			7,410.0	7,411.0	3.00		0.360		3.375	120.00		23.00 PRODUCTIO N	<u>o</u>	
10/14/201 3 12:00AM	MESAVERDE/			7,436.0	7,437.0	3.00		0.360		3.375	120.00		23.00 PRODUCTIO N	Q	
10/14/201 3 12:004M	MESAVERDE/			7,450.0	7,451.0	3.00		0.360		3.375	120.00		23.00 PRODUCTIO N	Q	1
10/14/201 3 12:00AM	MESAVERDE/			7,470.0	7,471.0	3.00		0.360		3.375	120.00		23.00 PRODUCTIO N	Q	,
10/14/201 3 12:00AM	MESAVERDE/			7,500.0	7,501.0	3.00		0.360		3.375	120.00		23.00 PRODUCTIO N	Q	1
10/14/201	MESAVERDE/			7,538.0	7,539.0	3.00		0.360		3.375	120.00		23.00 PRODUCTIO N	O	
12:00AM															

RECEIVED: Nov. 26, 2013

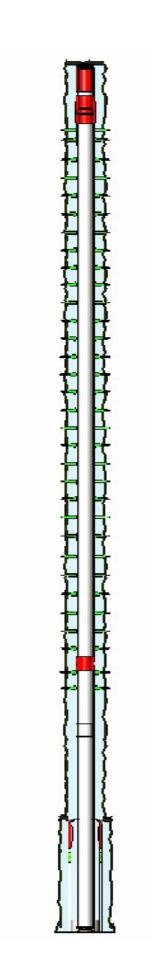
Perforated Interval (Continued)

													Sn	US ROCKIES REGION	
2.1 P	Perforated Interval (Continued)	(Continu	(pe												ll Nu
Date	Formation/ Reservoir	(nsft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)		Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	umber unsign
10/14/201	MESAVERDE/			7,574.0	7,575.0	3.00		0.360		3.375	120.00		23.00 PR	23.00 PRODUCTIO N	: 4
12:00AM 10/14/201	MESAVERDE/			7,610.0	7,611.0	3.00		0.360		3.375	120.00		23.00 PR	23.00 PRODUCTIO	304
3 12:00AM													Z		75
10/14/201 3	MESAVERDE/			7,634.0	7,635.0	3.00		0.360		3.375	120.00		23.00 PR	23.00 PRODUCTIO N	3246
10/14/201 3	MESAVERDE/			7,650.0	7,651.0	3.00		0.360		3.375	120.00		23.00 PR	23.00 PRODUCTIO N	0000
10/14/201 3	MESAVERDE/			7,697.0	7,698.0	3.00		0.360		3.375	120.00		23.00 PR	23.00 PRODUCTIO N	
10/14/201 3 12:00AM	MESAVERDE/			7,724.0	7,725.0	3.00		0.360		3.375	120.00		23.00 PR	23.00 PRODUCTIO N	
10/14/201 3 12:00AM	MESAVERDE/			7,773.0	7,774.0	3.00		0.360		3.375	120.00		23.00 PR	23.00 PRODUCTIO N	
10/14/201 3 12:00AM	MESAVERDE/			7,804.0	7,805.0	3.00		0.360		3.375	120.00		23.00 PR	23.00 PRODUCTIO N	
10/14/201 3 12:00AM	MESAVERDE/			7,830.0	7,831.0	3.00		0.360		3.375	120.00		23.00 PR	23.00 PRODUCTIO N	
10/14/201 3 12:00AM	MESAVERDE/			7,860.0	7,861.0	3.00		0.360		3.375	120.00		23.00 PR	23.00 PRODUCTIO N	
10/14/201 3 12:00AM	MESAVERDE/			7,900.0	7,901.0	3.00		0.360		3.375	120.00		23.00 PR	23.00 PRODUCTIO N	
10/14/201 3 12:00AM	MESAVERDE/			7,930.0	7,931.0	3.00		0.360		3.375	120.00		23.00 PR	23.00 PRODUCTIO N	
10/14/201 3 12:00AM	MESAVERDE/			7,958.0	7,959.0	3.00		0.360		3.375	120.00		23.00 PR	23.00 PRODUCTIO N	
10/14/201 3 12:00AM	MESAVERDE/			7,968.0	7,969.0	3.00		0.360		3.375	120.00		23.00 PR	23.00 PRODUCTIO N	

Perforated Interval (Continued)

													SN	US ROCKIES REGION	
2.1 P	Perforated Interval (Continued)	(Continu	(þ <sub>é</sub>												ll Nu
Date	Formation/ Reservoir	(nsft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)		Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	umber unsign
10/14/201	MESAVERDE/			7,975.0	7,976.0	3.00		0.360		3.375	120.00		23.00 PR	23.00 PRODUCTIO N	: 4
12:00AM 10/14/201	MESAVERDE/			8,001.0	8,002.0	3.00		0.360		3.375	120.00		23.00 PR	23.00 PRODUCTIO	1304
3 12:00AM													z		175
10/14/201 3	MESAVERDE/			8,009.0	8,010.0	3.00		0.360		3.375	120.00		23.00 PR	23.00 PRODUCTIO N	3246
10/14/201 3 12:00AM	MESAVERDE/			8,032.0	8,033.0	3.00		0.360		3.375	120.00		23.00 PR	23.00 PRODUCTIO N	50000
10/14/201 3 12:00AM	MESAVERDE/			8,042.0	8,043.0	3.00		0.360		3.375	120.00		23.00 PR	23.00 PRODUCTIO N	
10/14/201 3 12:00AM	MESAVERDE/			8,081.0	8,082.0	3.00		0.360		3.375	120.00		23.00 PR	23.00 PRODUCTIO N	
10/14/201 3 12:00AM	MESAVERDE/			8,138.0	8,139.0	3.00		0.360		3.375	120.00		23.00 PR	23.00 PRODUCTIO N	
10/14/201 3 12:00AM	MESAVERDE/			8,158.0	8,159.0	3.00		0.360		3.375	120.00		23.00 PR	23.00 PRODUCTIO N	
10/14/201 3 12:00AM	MESAVERDE/			8,204.0	8,205.0	3.00		0.360		3.375	120.00		23.00 PR	23.00 PRODUCTIO N	
10/14/201 3 12:00AM	MESAVERDE/			8,260.0	8,261.0	3.00		0.360		3.375	120.00		23.00 PR	23.00 PRODUCTIO N	
10/14/201 3 12:00AM	MESAVERDE/			8,272.0	8,273.0	3.00		0.360		3.375	120.00		23.00 PR	23.00 PRODUCTIO N	
10/14/201 3 12:00AM	MESAVERDE/			8,290.0	8,291.0	3.00		0.360		3.375	120.00		23.00 PR	23.00 PRODUCTIO N	
10/14/201 3 12:00AM	MESAVERDE/			8,308.0	8,309.0	3.00		0.360		3.375	120.00		23.00 PR	23.00 PRODUCTIO N	
10/14/201 3 12:00AM	MESAVERDE/			8,327.0	8,328.0	3.00		0.360		3.375	120.00		23.00 PR	23.00 PRODUCTIO N	

													ŝn	US ROCKIES REGION		API Wel
2.1 P	Perforated Interval (Continued)	(Continue	(pe													ll Nu
Date	Formation/ Reservoir	(nsft)	CCL-T S (usft)	MD Top (usft)	CCL-T MD Top MD Base Shot S (usft) (usft) (shot/ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun	ımber
10/14/201 3 12:00AM	10/14/201   MESAVERDE/ 3 12:00AM			8,336.0	8,337.0	3.00		0.360		3.375	120.00		23.00 PF N	23.00 PRODUCTIO N		: 43
10/14/201 3 12:00AM	10/14/201 MESAVERDE/ 3 12:00AM			8,375.0	8,376.0	3.00		0.360		3.375	120.00		23.00 PF N	23.00 PRODUCTIO N		0475
8. 8.	Plots Wellbore Schematic	ပ														32460000



November 20, 2013 at 2:58 pm

OpenWells

				_			EGION ary Report	
Well: RONANZA	1023-7D1CS GREEI	N.		Ороло			Spud Date: 6/8	3/2013
Project: UTAH-U		<u> </u>	Site: BON	IANZA 10	)23-7D P	AD	opud Bato. or	Rig Name No: MILES 2/2
Event: COMPLE	TION		Start Date	e: 10/9/20	)13			End Date: 10/30/2013
Active Datum: RI Level)	KB @5,216.00usft (al	bove Mean S	ea	UWI: N	W/NW/0/	10/S/23/E	E/7/0/0/26/PM/N/5	97/W/0/629/0/0
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
9/18/2013	-							
10/9/2013	10:00 - 11:00	1.00	SUBSPR	52	В	P		FILL SURFACE CSG. MIRU CAMERON QUICK TEST. PRESSURE TEST CSG & FRAC VALVES  1ST PSI TEST T/ 7000 PSI. HELD FOR 15 MIN LOST  102 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI.  PRESSURE TEST 8 5/8 X 4 1/2 TO 515 PSI HELD FOR  5 MIN LOST -30 PSI, BLED PSI OFF, REINSTALLED POP OFF SWIFN NO PRESSURE ON SURFACE CASING FILLED SURFACE WITH 4 BBLS H2O
10/11/2013	6:30 - 7:30	1.00	SUBSPR	37		Р		PERF STG 1)PU 3 1/8 EXP GUN, 19 GM, .40 HOLE SIZE. RIH PERFWELL, AS PER PERF DESIGN. POOH. SWIFW
10/14/2013	6:30 - 6:45	0.25	FRAC	48		Р		HSM,JSA
	7:00 - 15:00	8.00	FRAC	36	Н	P		REFER TO STIMULATION PJR FOR FLUID, SAND AND CHEMICAL VOLUMES, ALL STAGES WERE PERFORATED ACCORDING TO PERF RECORD IN OPEN WELLS, ALL STAGES WERE STIMULATED TO VENDOR POST JOB REPORT. ALL PLUGS ARE HALIBURTON 8K CBPS  FRAC STG #1] WHP=1160#, BRK DN PERFS=3578#, @=4.0 BPM, INTIAL ISIP=2078#, FG=.69, FINAL ISIP=2412# FG=.73
10/15/2013	6:00 - 6:15	0.25	FRAC	48		Р		ISIP=2412#, FG=.73,  SET PLUG & PERFORATE STG #2  SWIFN W/O FRAC HSM,JSA

### API Well Number: 43047532460000 US ROCKIES REGION **Operation Summary Report** Spud Date: 6/8/2013 Well: BONANZA 1023-7D1CS GREEN Project: UTAH-UINTAH Site: BONANZA 1023-7D PAD Rig Name No: MILES 2/2 **Event: COMPLETION** End Date: 10/30/2013 Start Date: 10/9/2013 UWI: NW/NW/0/10/S/23/E/7/0/0/26/PM/N/597/W/0/629/0/0 Active Datum: RKB @5,216.00usft (above Mean Sea P/U Date Time Duration Phase Code Sub MD From Operation Start-End (hr) Code (usft) 6:30 - 17:00 10.50 **FRAC** 36 Ρ Н REFER TO STIMULATION PJR FOR FLUID, SAND AND CHEMICAL VOLUMES, ALL STAGES WERE PERFORATED ACCORDING TO PERF RECORD IN OPEN WELLS, ALL STAGES WERE STIMULATED TO VENDOR POST JOB REPORT. ALL PLUGS ARE HALIBURTON 8K CBPS FRAC STG #2] WHP=1806#, BRK DN PERFS=3905#, @=2.8 BPM, INTIAL ISIP=2407#, FG=.74, FINAL ISIP=2513#, FG=.75, SET PLUG & PERFORATE STG #3 FRAC STG #3] WHP=2080#, BRK DN PERFS=3077#, @=4.1 BPM, INTIAL ISIP=2375#, FG=.74, FINAL ISIP=2578#, FG=.77, SET PLUG & PERFORATE STG #4 SWIFN W/O FRAC 10/16/2013 6:00 - 6:15 0.25 **FRAC** Р HSM,JSA 6:30 - 17:00 Р 10.50 **FRAC** 36 Н FRAC STG #4] WHP=1881#, BRK DN PERFS=4426#, @=6.6 BPM, INTIAL ISIP=2116#, FG=.72, FINAL ISIP=2240#, FG=.73, SET PLUG PERFORATE STG #5 FRAC STG #5] WHP=1451#, BRK DN PERFS=3186#, @=6.8BPM, INTIAL ISIP=1842#, FG=.69, FINAL ISIP=1835#, FG=.69, SET PLUG AND PERFORATE STG #6 SWIFN W/O FRAC - 6:15 10/17/2013 6:00 0.25 Р **FRAC** 48 HSM,JSA 6:30 - 17:00 10.50 Р FRAC 36 Н FRAC STG #6] WHP=1123#, BRK DN PERFS=2015#, @=5.8 BPM, INTIAL ISIP=1219#, FG=.61, FINAL ISIP=2042#, FG=.72, SET PLUG AND PERFORATE STG #7 FRAC STG #7] WHP=1070#, BRK DN PERFS=2537#, @=3.9 BPM, INTIAL ISIP=1583#, FG=67., FINAL ISIP=2348#, FG=.78, SET PLUUG AND PERFORATE STG #8 SWIFN W/O FRAC 10/18/2013 6:00 - 6:15 0.25 **FRAC** Ρ HSM,JSA 48

#### API Well Number: 43047532460000 US ROCKIES REGION **Operation Summary Report** Spud Date: 6/8/2013 Well: BONANZA 1023-7D1CS GREEN Project: UTAH-UINTAH Site: BONANZA 1023-7D PAD Rig Name No: MILES 2/2 Event: COMPLETION End Date: 10/30/2013 Start Date: 10/9/2013 UWI: NW/NW/0/10/S/23/E/7/0/0/26/PM/N/597/W/0/629/0/0 Active Datum: RKB @5,216.00usft (above Mean Sea Date P/U Time Duration Phase Code Sub MD From Operation Start-End Code (usft) (hr) 6:30 - 12:00 5.50 **FRAC** 36 Н Ρ FRAC STG #8] WHP=319#, BRK DN PERFS=2854#, @=4.0 BPM, INTIAL ISIP=1139#, FG=.61, FINAL ISIP=1886#, FG=.72, SET PLUG AND PERFORATE STG #9 FRAC STG #9] WHP=542#, BRK DN PERFS=2902#, @=3.8 BPM, INTIAL ISIP=892#, FG=.58, FINAL ISIP=1551#, FG=.69, SET TOP KILL TOTAL BBLS=11,780 TOTAL SAND=248,137 SWIFN W/O DRILL OUT 10/29/2013 7:00 - 7:15 0.25 DRLOUT HSM, SLIPS, TRIPS & FALLS, RIGGING UP, PU TBG 7:15 Ρ DRLOUT 31 4 OF 5, MIRU, ND WH, NU BOP, RU FLOOR & TBG EQUIP, PU 3 7/8" BIT, POBS, 1.875" XN S/N, TALLY & PU TBG TO KILL PLUG, RU P/S, FILL TBG & BREAK CIRC, P/T BOP TO 3,000 PSI, PREP TO D/O CBPS IN AM, SWI, SDFN. 10/30/2013 7:00 - 7:15 0.25 DRLOUT 48 HSM, SLIPS, TRIPS & FALLS, D/O CBP'S THRU HAL 9000

API We.	<del>ll Number:</del>	4304	753246			KIES R	EGION	
				Opera	tion S	Summa	ary Report	
Well: BONANZA	1023-7D1CS GREEN	1					Spud Date: 6/8/	/2013
Project: UTAH-UI			Site: BON	IANZA 10	)23-7D P	AD	-	Rig Name No: MILES 2/2
Event: COMPLE	TION		Start Date	e: 10/9/20	)13			End Date: 10/30/2013
	KB @5,216.00usft (ab	ove Mean S		1		10/S/23/E	:/7/0/0/26/PM/N/59	7/W/0/629/0/0
Level)  Date	Time	Duration	Phase	Code	Sub	P/U	MD From	Operation
	Start-End	(hr)			Code		(usft)	1,111
	7:15 - 16:00	8.75	DRLOUT	44	С	Р		4 OF 5, SURFACE CSG VALVE OPEN & LOCKED, D/O 9 CBP'S THRU 3" FLOWLINE & HAL 9000
								C/O 0' SAND, TAG 1ST PLUG @ 6,160', KICK 0 PSI, RIH, ((NO FLOW W/O PUMP))
								C/O 20' SAND, TAG 2ND PLUG @ 6,271', KICK 0 PSI, RIH, ((NO FLOW W/O PUMP))
								C/O 50' SAND, TAG 3RD PLUG @ 6,783', KICK 100 PSI, CSG PRESS 400 PSI, RIH, STARTED SELLING GAS THRU SAND TRAP & HAL 9000
								C/O 30' SAND, TAG 4TH PLUG @ 7,060', KICK 500 PSI, CSG PRESS 400 PSI, RIH
								C/O 30' SAND, TAG 5TH PLUG @ 7,300', KICK 400 PSI, CSG PRESS 350 PSI, RIH
								C/O 20' SAND, TAG 6TH PLUG @ 7,528', KICK 100 PSI, CSG PRESS 350 PSI, RIH
								C/O 30' SAND, TAG 7TH PLUG @ 7,794', KICK 300 PSI, CSG PRESS 400 PSI, RIH
								C/O 10' SAND, TAG 8TH PLUG @ 7,991', KICK 400 PSI, CSG PRESS 400 PSI, RIH
								C/O 30' SAND, TAG 9TH PLUG @ 8,235', KICK 800 PSI, CSG PRESS 600 PSI
								NOTE: WAS SELLING 6.5 - 7 MIL THRU 2 SEPERATORS, HAD 600-650 PSI ON SAND TRAP, 550-600 PSI ON HAL 9000, 400-450 ON SEPERATORS (MAX ON SEPERATORS) SOLD 432 MCF WHILE D/O
								PBTD @ 8,419', BTM PERF @ 8,376', RIH TAGGED @ 8,390', C/O TO 8,419' PBTD, 43' PAST BTM PERF W/ 266 JTS 2 3/8" L-80 & J-55 TBG, LD 15 JTS, PU & STRIP IN TBG HANGER & LAND TBG W/ 251 JTS 2 3/8", EOT 7,965.79'.
								RD P/S, FLOOR & TBG EQUIP, ND BOPS, NU WH, DROP BALL & SHEAR OFF BIT, P/T LINE FROM WH TO HAL 9000 TO 3,000 PSI, NO VISIBLE LEAKS, LET BIT FALL FOR 20 MIN.
								TURN OVER TO FLOW BACK CREW & SALES, RD TO MOVE TO NEXT WELL ON PAD, SDFN.
								KB= 24' 4 1/16" CAMERON HANGER= .83' DELIVERED 165 JTS L-80 101 JTS 2 3/8" L-80= 3,187.61' TBG DELIVERED 150 JTS J-55

API We	<del>ll Number</del>	4304	753246			KIES RI	EGION	
				Opera	tion S	Summa	ry Report	
Well: BONANZA	1023-7D1CS GREEN	N					Spud Date: 6/8/	/2013
Project: UTAH-UI	NTAH		Site: BON	IANZA 10	)23-7D P	AD		Rig Name No: MILES 2/2
Event: COMPLE	ΓΙΟΝ		Start Date	e: 10/9/20	)13			End Date: 10/30/2013
Active Datum: Rh Level)	KB @5,216.00usft (al	oove Mean Se	ea	UWI: N	W/NW/0/	10/S/23/E	/7/0/0/26/PM/N/59	97/W/0/629/0/0
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	16:00							1 - 6' PUP JT L-80= 6.18'  TOTAL TBG= 315 JTS L-80 & J-55 150 JTS 2 3/8" J-55 = 4,744.97'  TBG USED 251 JTS  POBS= 2.20'  TBG RETURNED 64 JTS L-80  EOT @ 7,965.79'  TWTR= 11,780 BBLS  TWR= 3,500 BBLS  TWLTR= 8,280 BBLS
	16:00 - 16:00	0.00	DRLOUT	50				WELL TURNED TO SALES @ 14:20 HR ON 10/30/2013. 1560 BWPD, FCP 2000#, FTP 1700#, 20/64" CK.

### **Anadarko Petroleum Corporation**



Project: Uintah Co., UT Site: Sec 7-T10S-R23E Well: BONANZA 1023-7D1CS Wellbore: Original Hole **Final Surveys** Rig: SST 8

Surface Location: SHL 597' FNL & 629' FWL Sec 7-T10S-R23E

US State Plane 1927 (Exact solution)

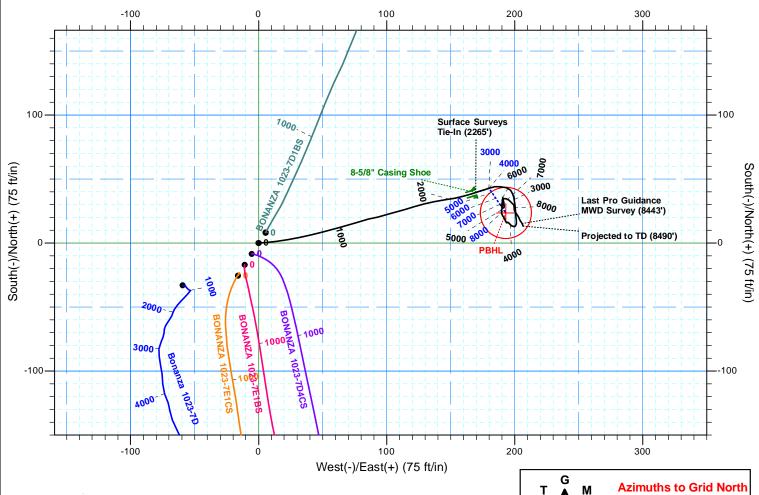
Utah Central 4302
Elevation: 5192' GL + 24' KB @ 5216.00ft (SST 8)

Longitude -109.375918 Northing 602843.27 **Easting** 2595264.00 Latittude 39.969055

						SECT	ION DETAIL Plan 3	.S	
MD 2265.00 2552.33 4257.93 4364.60 8456.00	4.31 0.00 0.00 0.32 0.32	<b>Azi</b> 72.64 0.00 0.00 145.45 145.45	TVD 2257.34 2544.40 4250.00 4356.67 8448.00	+N/-S 39.49 42.72 42.72 42.47 23.56	+E/-W 169.66 179.97 179.97 180.14 193.16	Dleg 0.00 1.50 0.00 0.30 0.00	<b>TFace</b> 0.00 180.00 0.00 145.45 0.00	VSect 173.19 183.82 183.82 183.95 194.59	Annotation Surface Survey Tie-In/Begin Drop at 2265' MD, 2257' TVD Begin Hold at 2552' MD, 2544' TVD Begin Build at 4258' MD, 4250' TVD Begin Hold at 4365' MD, 4357' TVD PBHL

		WELLBORI	E TARGET DETA	ILS (LAT/LONG)	
Name PBHL	<b>TVD</b> 8448.00	<b>+N/-S</b> 23.56	<b>+E/-W</b> 193.16	<b>Latitude</b> 39.969107	<b>Longitude</b> -109.375227





To convert a Magnetic Direction to a Grid Direction, Add 9.38°

Date: 16:34, August 21 2013 Created By: Bob Hays

True North: -1.36°

Magnetic North: 9.38°

Magnetic Field Strength: 52111.8snT Dip Angle: 65.81° Date: 08/15/2013 Model: IGRF2010

### **Anadarko Petroleum Corporation**



Project: Uintah Co., UT Site: Sec 7-T10S-R23E Well: BONANZA 1023-7D1CS Wellbore: Original Hole Final Surveys Rig: SST 8

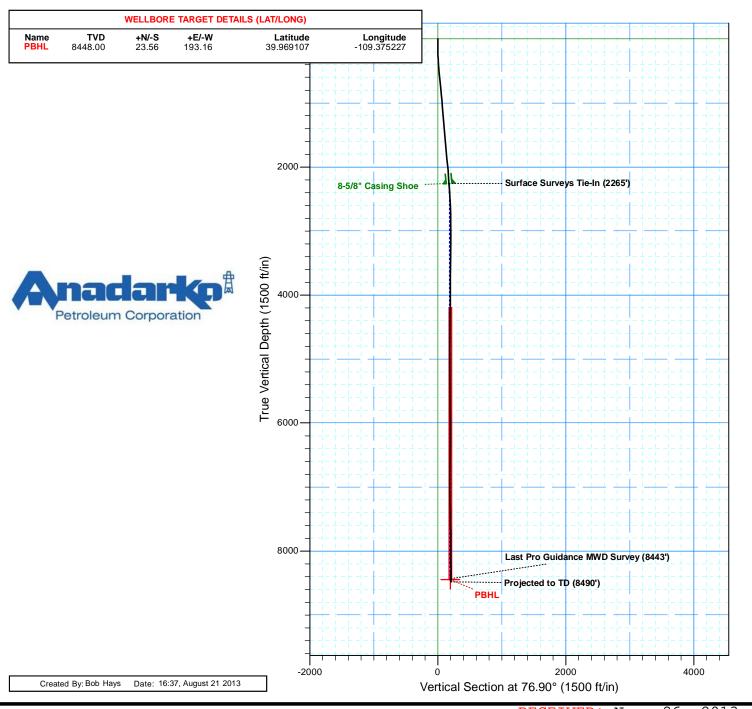
Surface Location: SHL 597' FNL & 629' FWL Sec 7-T10S-R23E

US State Plane 1927 (Exact solution)
Utah Central 4302

Elevation: 5192' GL + 24' KB @ 5216.00ft (SST 8)

rthing Easting Latittude Longitude
43.27 2595264.00 39.969055 -109.375918 **Northing** 602843.27

						SECT	ION DETAIL Plan 3	.S	
<b>MD</b> 2265.00	Inc 4.31	<b>Azi</b> 72.64	TVD 2257.34	+N/-S 39.49	<b>+E/-W</b> 169.66	<b>Dleg</b> 0.00	<b>TFace</b> 0.00	<b>VSect</b> 173.19	Annotation Surface Survey Tie-In/Begin Drop at 2265' MD, 2257' TVD
2552.33 4257.93 4364.60	0.00 0.00 0.32	0.00 0.00 145.45	2544.40 4250.00 4356.67	42.72 42.72 42.47	179.97 179.97 180.14	1.50 0.00 0.30	180.00 0.00 145.45	183.82 183.82 183.95	Begin Hold at 2552' MD, 2544' TVD Begin Build at 4258' MD, 4250' TVD Begin Hold at 4365' MD, 4357' TVD





### **Anadarko Petroleum Corporation**

Uintah Co., UT Sec 7-T10S-R23E BONANZA 1023-7D1CS

**Original Hole** 

**Design: Final Surveys** 

### **Standard Survey Report**

21 August, 2013







Survey Report



Anadarko Petroleum Corporation Company:

Project: Uintah Co., UT Site: Sec 7-T10S-R23E Well: BONANZA 1023-7D1CS

Wellbore: Original Hole

Final Surveys Design:

**Local Co-ordinate Reference:** 

**TVD Reference:** MD Reference: North Reference:

**Survey Calculation Method:** 

Database:

Well BONANZA 1023-7D1CS

5192' GL + 24' KB @ 5216.00ft (SST 8) 5192' GL + 24' KB @ 5216.00ft (SST 8)

Minimum Curvature

EDM 5000.1 Single User Db

Uintah Co., UT **Project** 

US State Plane 1927 (Exact solution) Map System:

NAD 1927 (NADCON CONUS) Geo Datum:

Map Zone: Utah Central 4302 System Datum:

Mean Sea Level

Sec 7-T10S-R23E Site

Northing: 602,851.45 ft Site Position: Latitude: 39.969077 Easting: 2,595,269.42 ft Longitude: From: Lat/Long -109.375898 0.00 ft **Slot Radius:** 13.200 in **Grid Convergence:** 1.36° **Position Uncertainty:** 

Well BONANZA 1023-7D1CS

**Well Position** 0.00 ft +N/-S Northing: 602,843.28 ft Latitude: 39.969055 +E/-W 0.00 ft Easting: 2,595,264.00 ft Longitude: -109.375918 0.00 ft Wellhead Elevation: 0.00 ft **Ground Level:** 5,192.00 ft **Position Uncertainty** 

Wellbore Original Hole

**Magnetics Model Name Sample Date** Declination **Dip Angle** Field Strength (°) (°) (nT) IGRF2010 08/15/13 10.74 65.81 52,112

Date 08/21/13 **Survey Program** From То (ft) (ft) Survey (Wellbore) **Tool Name** Description MWD MWD 180.00 2,265.00 Surface Surveys (Original Hole) 8,443.00 Pro Guidance MWD Surveys (Original Hol MWD MWD 2,417.00 8,490.00 8,490.00 Projected to TD (Original Hole) Projection Projection

ırvey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.00	0.18	84.77	180.00	0.03	0.28	0.28	0.10	0.10	0.00
261.00	1.49	82.75	260.99	0.17	1.45	1.45	1.62	1.62	-2.49
346.00	3.25	88.38	345.91	0.38	4.96	4.91	2.09	2.07	6.62
436.00	4.57	82.47	435.70	0.92	11.06	10.98	1.53	1.47	-6.57
526.00	5.54	80.99	525.35	2.07	18.91	18.89	1.09	1.08	-1.64
616.00	6.10	78.97	614.89	3.67	27.89	28.00	0.66	0.62	-2.24
706.00	5.89	77.74	704.39	5.56	37.10	37.39	0.27	-0.23	-1.37
796.00	5.54	76.77	793.95	7.54	45.84	46.36	0.40	-0.39	-1.08
886.00	5.45	74.40	883.53	9.68	54.19	54.97	0.27	-0.10	-2.63
976.00	5.54	75.28	973.12	11.93	62.50	63.58	0.14	0.10	0.98
1,066.00	5.28	73.26	1,062.72	14.23	70.67	72.06	0.36	-0.29	-2.24
1,156.00	5.10	72.64	1,152.35	16.62	78.46	80.18	0.21	-0.20	-0.69
1,246.00	4.84	77.04	1,242.01	18.66	85.97	87.97	0.51	-0.29	4.89
1,336.00	4.57	75.72	1,331.71	20.40	93.15	95.35	0.32	-0.30	-1.47



### **Professional Directional LTD**

**Survey Report** 



Company: Anadarko Petroleum Corporation

Project: Uintah Co., UT
Site: Sec 7-T10S-R23E
Well: BONANZA 1023-7D1CS

Wellbore: Original Hole
Design: Final Surveys

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Database:

Well BONANZA 1023-7D1CS

5192' GL + 24' KB @ 5216.00ft (SST 8) 5192' GL + 24' KB @ 5216.00ft (SST 8)

Grid

Minimum Curvature

EDM 5000.1 Single User Db

Design:	Fin	al Surveys			Database	e:		EDM 5000.1 S	Single User Db	
Survey										
Meas Dep (ft	oth	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
	26.00	4.57	73.61	1,421.42	22.29	100.06	102.51	0.19	0.00	-2.34
	16.00	4.92	74.75	1,511.11	24.32	107.23	109.95	0.40	0.39	1.27
1,6	06.00	4.75	73.70	1,600.79	26.38	114.53	117.52	0.21	-0.19	-1.17
1,6	96.00	4.92	72.38	1,690.47	28.59	121.78	125.09	0.23	0.19	-1.47
1,7	86.00	4.84	77.92	1,780.15	30.56	129.17	132.74	0.53	-0.09	6.16
1,8	76.00	5.28	79.06	1,869.80	32.14	136.95	140.67	0.50	0.49	1.27
1,9	66.00	5.54	80.90	1,959.40	33.61	145.31	149.14	0.35	0.29	2.04
2,0	56.00	4.84	78.00	2,049.03	35.09	153.31	157.27	0.83	-0.78	-3.22
2,1	46.00	4.75	75.54	2,138.71	36.81	160.63	164.79	0.25	-0.10	-2.73
	36.00	4.44	71.89	2,228.42	38.82	167.55	171.99	0.47	-0.34	-4.06
,	65.00	4.31	72.64	2,257.34	39.49	169.66	174.19	0.49	-0.45	2.59
		ırveys Tie-In (2								
	17.00	3.20	72.00	2,409.01	42.51	179.14	184.12	0.73	-0.73	-0.42
	12.00	3.40	78.20	2,503.85	43.91	184.42	189.58	0.43	0.21	6.53
	75.00	3.40	96.00	2,566.74	44.09	188.11	193.21	1.67	0.00	28.25
2,6	71.00	3.20	103.20	2,662.58	43.18	193.55	198.30	0.48	-0.21	7.50
2,7	66.00	2.00	150.80	2,757.49	41.13	196.94	201.14	2.49	-1.26	50.11
2,8	61.00	1.60	158.70	2,852.45	38.45	198.23	201.79	0.49	-0.42	8.32
-	57.00	1.90	160.20	2,948.40	35.70	199.26	202.16	0.32	0.31	1.56
	51.00	2.20	176.90	3,042.34	32.43	199.88	202.03	0.71	0.32	17.77
	46.00	2.00	171.40	3,137.28	28.97	200.23	201.58	0.30	-0.21	-5.79
3,2	41.00	2.10	172.80	3,232.22	25.61	200.70	201.28	0.12	0.11	1.47
3,3	37.00	2.50	179.00	3,328.14	21.77	200.95	200.66	0.49	0.42	6.46
3,4	32.00	2.60	168.20	3,423.05	17.59	201.43	200.17	0.52	0.11	-11.37
3,5	26.00	0.90	219.20	3,517.00	14.93	201.40	199.54	2.29	-1.81	54.26
3,6	22.00	1.40	199.10	3,612.99	13.24	200.54	198.32	0.66	0.52	-20.94
3,7	17.00	1.00	312.80	3,707.97	12.70	199.55	197.23	2.13	-0.42	119.68
3,8	12.00	0.40	280.70	3,802.97	13.33	198.62	196.47	0.73	-0.63	-33.79
	07.00	0.60	242.90	3,897.96	13.16	197.85	195.68	0.39	0.21	-39.79
4,0	03.00	1.70	331.00	3,993.95	14.18	196.71	194.80	1.86	1.15	91.77
	98.00	0.90	310.50	4,088.92	15.90	195.46	193.97	0.96	-0.84	-21.58
4,1	93.00	0.40	237.40	4,183.92	16.20	194.61	193.22	0.92	-0.53	-76.95
4,2	88.00	0.70	251.40	4,278.91	15.84	193.78	192.33	0.34	0.32	14.74
4,3	83.00	1.60	342.20	4,373.90	16.92	192.83	191.64	1.85	0.95	95.58
4,4	78.00	1.50	333.00	4,468.86	19.29	191.86	191.23	0.28	-0.11	-9.68
	73.00	1.20	326.40	4,563.84	21.22	190.74	190.59	0.36	-0.32	-6.95
4,6	68.00	0.80	335.10	4,658.82	22.65	189.91	190.10	0.45	-0.42	9.16
4,7	63.00	0.70	2.20	4,753.82	23.83	189.66	190.12	0.38	-0.11	28.53
	58.00	0.70	0.30	4,848.81	25.00	189.68	190.41	0.02	0.00	-2.00
-	53.00	0.20	22.70	4,943.80	25.73	189.75	190.64	0.55	-0.53	23.58
	49.00	0.10	341.40	5,039.80	25.96	189.79	190.73	0.15	-0.10	-43.02
5.1	43.00	0.40	171.10	5,133.80	25.72	189.81	190.70	0.53	0.32	-181.17
•	39.00	1.50	5.60	5,229.79	26.64	189.99	191.08	1.97	1.15	-172.40
	34.00	0.70	357.30	5,324.78	28.45	190.08	191.58	0.86	-0.84	-8.74
5,3	54.00	0.70	337.30	5,524.78	20.40	190.08	191.08	0.00	-0.04	-0.74



### **Professional Directional LTD**

**Survey Report** 



Company: Anadarko Petroleum Corporation

Project: Uintah Co., UT
Site: Sec 7-T10S-R23E
Well: BONANZA 1023-7D1CS

Wellbore: Original Hole
Design: Final Surveys

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

**Survey Calculation Method:** 

Database:

Well BONANZA 1023-7D1CS

5192' GL + 24' KB @ 5216.00ft (SST 8) 5192' GL + 24' KB @ 5216.00ft (SST 8)

Grid

Minimum Curvature

EDM 5000.1 Single User Db

Survey
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Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,429.00	0.20	36.20	5,419.77	29.17	190.15	191.81	0.59	-0.53	40.95
5,524.00	0.30	40.40	5,514.77	29.49	190.41	192.14	0.11	0.11	4.42
5,620.00	0.20	149.30	5,610.77	29.54	190.66	192.39	0.43	-0.10	113.44
5,715.00	1.50	351.20	5,705.76	30.62	190.55	192.53	1.78	1.37	-166.42
5,810.00	1.00	6.70	5,800.74	32.68	190.46	192.91	0.63	-0.53	16.32
5,905.00	0.80	11.60	5,895.73	34.15	190.69	193.47	0.23	-0.21	5.16
6,000.00	0.40	339.30	5,990.72	35.11	190.70	193.70	0.54	-0.42	-34.00
6,096.00		280.70	6,086.72	35.44	190.50	193.58	0.37	-0.31	-61.04
6,191.00		139.70	6,181.72	35.20	190.64	193.65	0.51	0.32	-148.42
6,286.00		157.40	6,276.72	34.56	191.01	193.87	0.18	0.11	18.63
6,381.00		178.30	6,371.71	33.44	191.19	193.79	0.49	0.42	22.00
6,476.00	1.60	168.80	6,466.69	31.39	191.47	193.60	0.77	0.74	-10.00
6,571.00	1.80	170.90	6,561.65	28.61	191.97	193.45	0.22	0.21	2.21
6,666.00	0.70	298.10	6,656.63	27.41	191.69	192.91	2.41	-1.16	133.89
6,762.00	0.70	304.70	6,752.62	28.02	190.69	192.08	0.08	0.00	6.88
6,857.00	0.90	315.80	6,847.62	28.89	189.69	191.30	0.27	0.21	11.68
6,951.00	0.10	28.00	6,941.61	29.49	189.22	190.98	0.93	-0.85	76.81
7,047.00	0.50	106.40	7,037.61	29.45	189.66	191.40	0.51	0.42	81.67
7,142.00	1.30	10.20	7,132.60	30.39	190.25	192.18	1.52	0.84	-101.26
7,237.00	0.90	358.40	7,227.58	32.20	190.42	192.76	0.48	-0.42	-12.42
7,332.00	0.50	6.70	7,322.58	33.35	190.44	193.05	0.43	-0.42	8.74
7,428.00	0.60	54.70	7,418.57	34.06	190.90	193.65	0.48	0.10	50.00
7,523.00	0.90	61.60	7,513.56	34.70	191.97	194.83	0.33	0.32	7.26
7,618.00		114.10	7,608.55	34.62	193.61	196.41	1.09	0.42	55.26
7,713.00		128.60	7,703.52	33.40	195.56	198.04	0.43	0.21	15.26
7,808.00		135.20	7,798.48	31.63	197.53	199.55	0.29	0.21	6.95
7,903.00	1.50	136.70	7,893.45	29.72	199.37	200.92	0.22	-0.21	1.58
7,998.00		206.10	7,988.42	27.70	199.68	200.76	1.80	0.00	73.05
8,094.00		149.30	8,084.39	25.28	199.89	200.42	1.66	0.31	-59.17
8,189.00		145.30	8,179.35	22.97	201.36	201.33	0.34	-0.32	-4.21
8,284.00		151.70	8,274.31	20.63	202.78	202.18	0.37	0.32	6.74
8,379.00	2.40	151.80	8,369.24	17.57	204.43	203.09	0.63	0.63	0.11
8,443.00		152.10	8,433.19	15.15	205.71	203.79	0.16	0.16	0.47
	Guidance MWD								
8,490.00		152.10	8,480.14	13.34	206.67	204.31	0.00	0.00	0.00
Projected	to TD (8490')								



### **Professional Directional LTD**

**Survey Report** 



Anadarko Petroleum Corporation Company:

Project: Uintah Co., UT Site: Sec 7-T10S-R23E Well: BONANZA 1023-7D1CS

8,443.00

8,490.00

8,433.19

8,480.14

15.15

13.34

Wellbore: Original Hole Design: Final Surveys Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

206.67 Projected to TD (8490')

**Survey Calculation Method:** 

Database:

Well BONANZA 1023-7D1CS

5192' GL + 24' KB @ 5216.00ft (SST 8) 5192' GL + 24' KB @ 5216.00ft (SST 8)

Last Pro Guidance MWD Survey (8443')

Minimum Curvature

EDM 5000.1 Single User Db

Design Annotations	Annotations				
Measu			ocal Coordinates		
Dept		TIW-C			
(ft)	(fi	(ft)	(ft)	Comment	
2,26	5.00 2,	257.34	39.49 169	9.66 Surface Surveys Tie-In (2265')	

205.71